

# 3•2•1 GSX

## DVD HOME ENTERTAINMENT SYSTEM

Owner's Guide

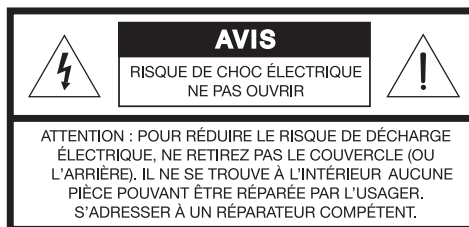
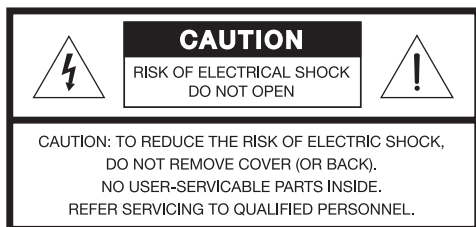


# SAFETY INFORMATION

## 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.

- WARNING:** To reduce the risk of fire or electric shock, do not expose the system to rain or moisture.
- WARNING:** This apparatus shall not be exposed to dripping or splashing, and objects filled with liquids, such as vases, shall not be placed on the apparatus. As with any electronic products, use care not to spill liquids in any part of the system. Liquids can cause a failure and/or a fire hazard.



The CAUTION marks shown here are located on the bottom of your 3•2•1 GSX home entertainment system media center and the rear panel of the Acoustimass® module:



The lightning flash with arrowhead symbol within an equilateral triangle alerts 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.

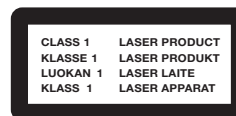


The exclamation point within an equilateral triangle alerts the user to the presence of important operating and maintenance instructions in this owner's guide.

- CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, insert fully.
- CAUTION:** No naked flame sources, such as lighted candles, should be placed on the apparatus.

## Class 1 laser product

This CD player is classified as a CLASS 1 LASER PRODUCT according to EN 60825-1:1994+A1+A2, IEC60825-1:1993+A1+A2.



- CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The DVD player should not be adjusted or repaired by anyone except properly qualified service personnel.

## Class B emissions limits

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



## Batteries

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

- CE** This product conforms to the EMC Directive 89/336/EEC and to the Low Voltage Directive 73/23/EEC. The complete Declaration of Conformity can be found at [www.bose.com](http://www.bose.com).

## Additional safety information

See the additional instructions on the *Important Safety Information* sheet enclosed in the shipping carton.

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The distinctive design of the 3•2•1 media center is also a registered trademark of Bose Corporation.

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## ***Before you begin***

Thank you for purchasing the 3•2•1 GSX DVD home entertainment system, which offers superb sound, elegance, and simplicity in an advanced home audio setup. Using Bose® proprietary signal processing technology, the 3•2•1 GSX system provides improved spaciousness from stereo recordings, and bold movie effects from surround-encoded materials. Yet its few parts require little effort to set up, so you can enjoy your new system's performance right away.

The following items are included to help you set up your system:

- Quick Setup Guide
- Detailed setup instructions in Setup section of this guide
- Setup DVD

## ***System features***

- Integrated AM/FM tuner and DVD/CD player in a small media center
- uMusic® intelligent playback system for storing and playing your favorite songs
- Small, easy-to-place shelf speakers and an attractive hideaway Acoustimass® module
- Easy-to-use universal infrared remote control
- Media center input jacks for a TV, cable/satellite box, or other component such as a DVR

### ***Introducing the uMusic® intelligent playback system***

Your 3•2•1 GSX DVD home entertainment system includes the new uMusic intelligent playback system – a breakthrough Bose technology that makes it possible to store and enjoy your CD collection.


#### **What can you do with this system?**

- Store your favorite CDs in a music library. Your system can store approximately 200 hours of music or about 200 CDs.
- Teach the system which tracks your like or dislike, conditioning the system to automatically play the music you want to hear most.
- Discover many ways to enjoy your music.

## ***Checking for region code compatibility***




For a DVD player and DVD disc to be compatible, their region code numbers must match. These numbers are allocated according to where the player and disc are sold. The 3•2•1 GSX DVD home entertainment systems have a region code that must also match the DVD discs.


Check the region code number on the carton of the 3•2•1 GSX DVD home entertainment system or on the bottom of the media center that comes in the carton. Then be sure to choose only DVD discs that show the same region number on the disc label or front cover.

For example, a Region 1 DVD disc should display the following mark: 

## Selecting compatible discs

The DVD/CD player built into the 3•2•1 GSX media center can play the following types of discs identified by their corresponding logos:

- Video DVD 
- Video CD 
- DVD+R, DVD-R, DVD+RW, and DVD-RW
- Audio CD 
- CD-R and CD-R/W
- MP3 CDs, where
  - All tracks were burned in a single closed session
  - The disc format is ISO9660
  - Each file has a “.mp3” extension and the filename contains no other periods
- SACDs (CD-compatible content only)

 **Note:** *Regarding copy protection – Music and other content may be protected by international and domestic copyright laws and may contain specific restrictions on use and/or reproduction. Please respect the rights of the artists and other copyright holders.*

## Glossary of terms


**Aspect Ratio** – The shape of the rectangular picture in a TV set. It is the width of the picture relative to the height. Our standard TV picture, in terminology used by that industry, is 4 units wide by 3 units high, or 4:3 (read as 4 by 3) in aspect ratio. There are currently two standard TV aspect ratios, 4:3 and 16:9.


**Chapter** – In DVD-Video, a division of a title.

**Component Video** – A video signal split into three parts: luminance and two color signals (marked as YPbPr). It provides the highest level of video quality.

**Composite Video** – A single video signal that contains luminance, color, and synchronization information. NTSC and PAL are examples of composite video systems.

**Dolby Laboratories** – Developer of a perceptual coding system for audio.

**Dolby Digital**  – A type of multi-channel surround sound format used on discs.

**DTS**  – A type of multi-channel surround sound format used on discs.

**DVD** – An acronym that is most commonly known to mean Digital Video Disc or Digital Versatile Disc. The audio/video/data storage system based on 12- and 8-cm optical discs.

**DVD Video** – A standard for storing and reproducing audio and video on DVD-ROM discs, based on MPEG video, Dolby Digital and MPEG audio, and other proprietary data formats.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 or 625 progressive scan picture problems, it is recommended that the user switch the connection to the “standard definition” output. If there are questions regarding our TV set compatibility with this model 525p and 625p DVD player, please contact our customer service center.

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**Gracenote** – Music recognition technology and related data provided as part of the service contracted by Bose.

**IR** – An acronym for infrared. Pertains to the type of remote that sends/receives commands on an infrared light beam.

**MPEG** – A type of data compression used for audio or video storage on disc.

**MP3** – MPEG-1 Layer III audio. This is a compressed audio format that allows you to record many hours of music on a single CD.

**NTSC** – An acronym for National Television System Committee. The organization that developed both the American Black & White and Color television systems.

**PAL** – An acronym for Phase Alternate Line. A television format used extensively in Western Europe.

**Progressive Scan** – A video format that displays all lines of the picture frame in a single pass, and refreshes the TV image 30x/sec. Not compatible with all video displays.

**PVR** – An abbreviation for Personal Video Recording. Sometimes used interchangeably with DVR for Digital Video Recording, but may include non-digital technology, as used in VCRs.

**RDS** – A system that displays radio broadcast station and programming information. This feature is available on European systems only.

**SACD** – An abbreviation for Super Audio Compact Disc, used for high-resolution digital audio storage on CD-sized discs. New Bose® 3•2•1 GSX systems play the CD-compatible portion of such discs, identified by the CD disc logo on the front of the disc.

**S-video** – A video interface standard that carries separate luminance and chrominance signals, usually on a four-pin mini-DIN connector. Also called Y/C. The quality of S-video is significantly better than composite video since it does not require a comb filter to separate the signals. Most high-end televisions have S-video inputs.

**uMusic® intelligent playback system** – A revolutionary Bose play mode, which performs like a virtual DJ by noting listener preferences and playing suitable stored CD tracks in response.

**Videostage® 5** – Bose proprietary Videostage 5 decoding circuitry gives you a five-channel surround sound experience from everything you listen to – VHS tapes, stereo CDs, even mono TV programs.

## Limited warranty

Your 3•2•1 GSX DVD home entertainment system is covered by a limited transferable warranty. Details of the limited warranty are provided on the product registration card that came with your system. Please fill out the information section on the card and mail it to Bose. Failure to do so will not affect your limited warranty rights.

This product incorporates copyright protected technology and other intellectual property rights owned by Cirrus Logic, Inc. and subject to the copyright protection of the U.S. as well as other licensing restrictions and protections. Use of this copyright protected technology is limited solely to use with the Cirrus Logic integrated circuits incorporated in this product. Reverse engineering or disassembly is prohibited.

Music recognition technology and related data are provided by Gracenote® and the Gracenote CDDB® music recognition service. Gracenote is the industry standard in music recognition technology and related content delivery. For more information visit [www.gracenote.com](http://www.gracenote.com).



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# SYSTEM SETUP

## Unpacking

SYSTEM SETUP

Carefully unpack your system. Save all packing materials, which provide the safest way to transport your system. Check to be sure your system includes the parts shown in Figure 1.


If any part of the system appears damaged, do not attempt to use it. Notify Bose or your authorized Bose® dealer immediately. For Bose contact information, refer to the address sheet included in the carton.

**WARNING:** To avoid danger of suffocation, keep the plastic bags out of the reach of children.


**Figure 1**

Contents of the shipping carton


Your system includes one of the following cords:




120 VAC power cord (U.S./Canada)




115/230 VAC power cord with adapter (U.S./Europe)



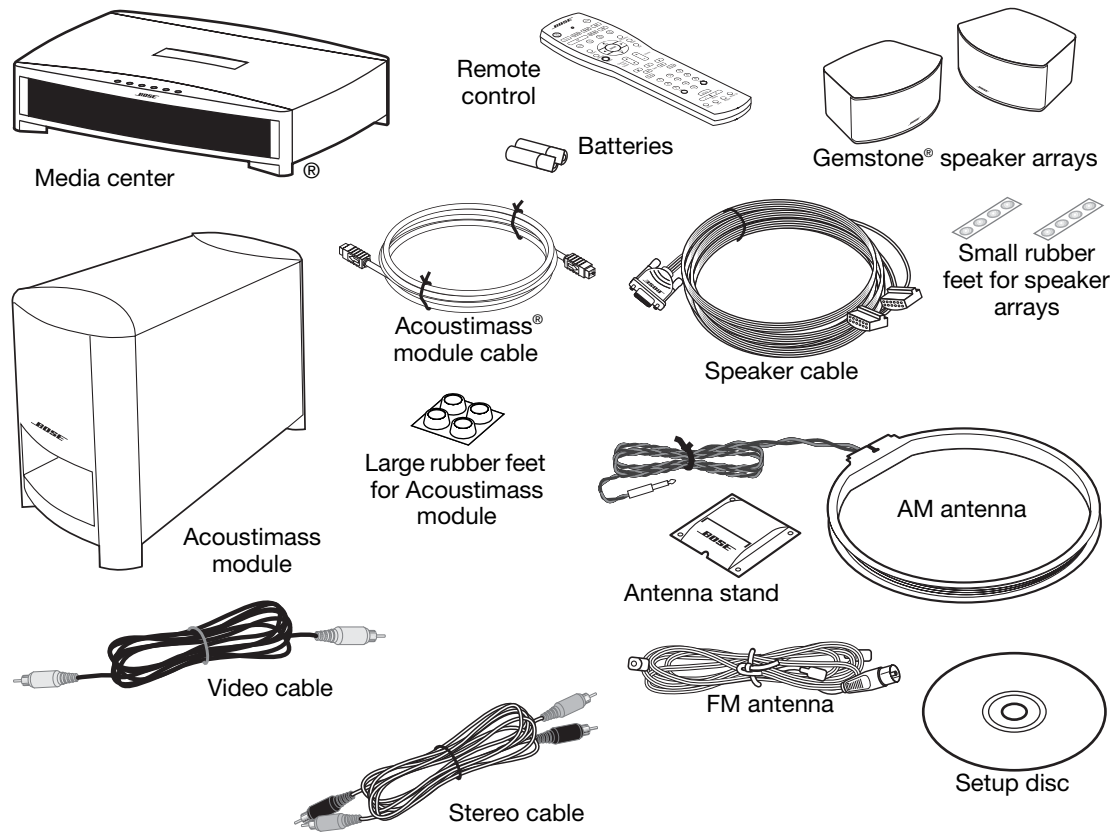
230 VAC power cord (Europe)



230 VAC power cord (U.K./Singapore)



240 VAC power cord (Australia)



### For your records

Now is a good time to find the serial numbers on the bottom of the media center and on the rear of the Acoustimass module. Please record them here and on your product registration card. You will need to have them ready if you ever need to contact Bose Customer Service.

Media center serial number: \_\_\_\_\_

Acoustimass module serial number: \_\_\_\_\_

Dealer name: \_\_\_\_\_

Dealer phone: \_\_\_\_\_ Purchase date: \_\_\_\_\_

We suggest you keep your sales receipt and product registration together with this owner's guide.



## Selecting locations for your 3•2•1 GSX system components

Use the following guidelines and Figure 2 to choose locations and positions for the components of your 3•2•1 GSX home entertainment system.

🎵 **Note:** While these guidelines are offered to help provide great system performance, you may find other placement choices that are more convenient and provide the sound you enjoy.

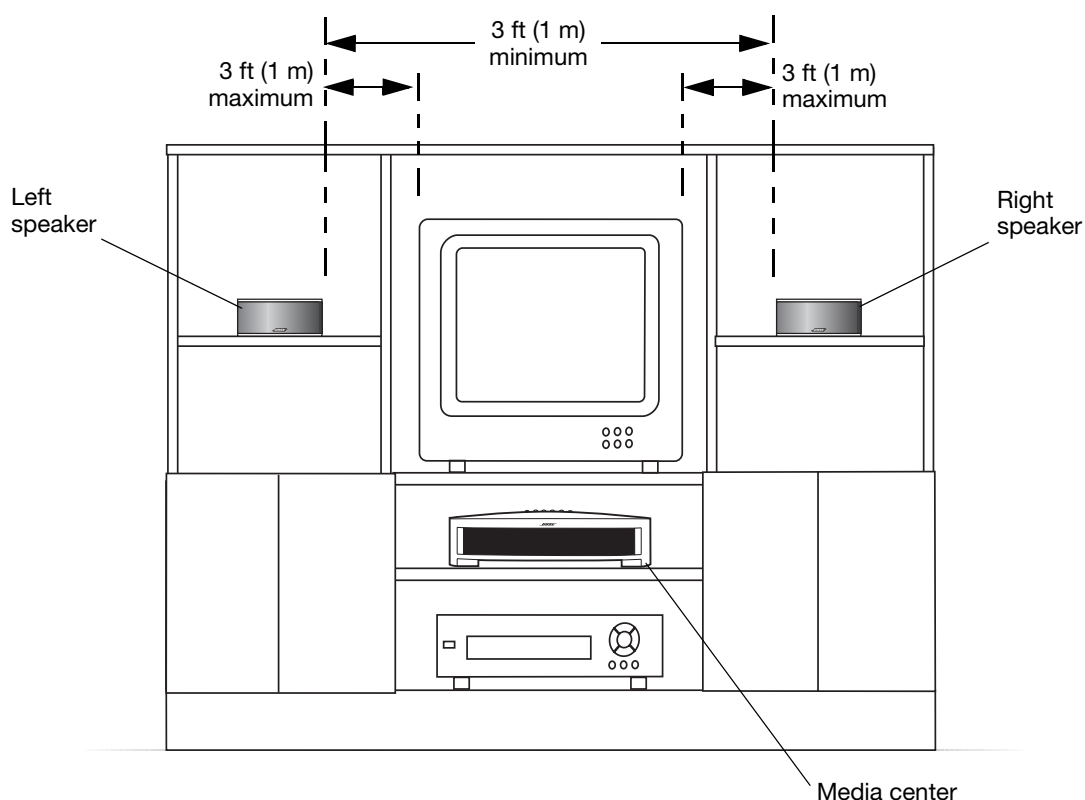
### Positioning the media center

⚠️ **CAUTION:** Do not block any ventilation openings. For reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation. For example, do not place the product on a bed, sofa, or similar surface that may block the ventilation openings. Do not put it in a built-in system, such as a bookcase or cabinet, that may keep air from flowing through its ventilation openings.

- Place the media center where nothing obstructs opening the disc tray on its front panel.
- Position the media center close enough to the Acoustimass® module and the speakers so that all the cables will reach.
- Make sure the media center is close enough to additional source devices (TV, VCR, or cable box) so that all the cables will reach.
- Make sure that the front of the media center is unobstructed so that it may receive IR (infrared) commands from the remote control.

**Figure 2**

Sample media center and speaker placement



🎵 **Note:** The left and right speakers are magnetically shielded to prevent interference with your TV screen.

### Positioning the speakers

Choosing a good location for the speakers will allow you to experience the audio surround effects that your 3•2•1 GSX home entertainment system is designed to deliver.

- Place the left and right speakers at least **3 feet (1 meter) apart from each other** to optimize the surround sound experience (Figure 3).
- Place each speaker **within 3 feet (1 meter) of the edge of the TV screen**. Placing the speakers more than 3 feet away from the TV can cause the sound to become separated from the picture.
- If you are using a bookshelf or a home entertainment unit, place each speaker at the **front edge** of its shelf. Positioning the speakers too far back in an enclosed space can change the overall quality of sound and alter the movie sound effects.

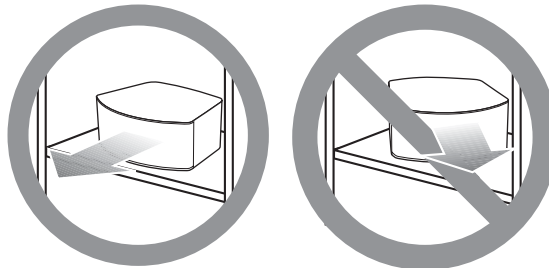
**⚠ CAUTION:** Choose a stable and level surface for both speakers. Vibration can cause the speakers to move, particularly on smooth surfaces like marble, glass, or highly polished wood. If you are placing the speakers on a flat surface, be sure to attach one set of the small rubber feet to the bottom surface of each speaker. You can obtain additional rubber feet (PN 178321) from Bose® Customer Service. To contact Bose, refer to the list of offices included in the product carton.

**🎵 Note:** The speakers can be mounted on Bose brackets, table stands, or floor stands. For ordering information, refer to "Accessories" on page 66. Additional or longer cables may also be ordered.

- Set the speakers on their bottom surfaces, only, with the Bose logo right-side up.



- Aim the speakers straight ahead into the listening area. Do not place the speakers at an angle. **Angling one or both speakers into or away from the listening area significantly alters system performance.**



**Figure 3**

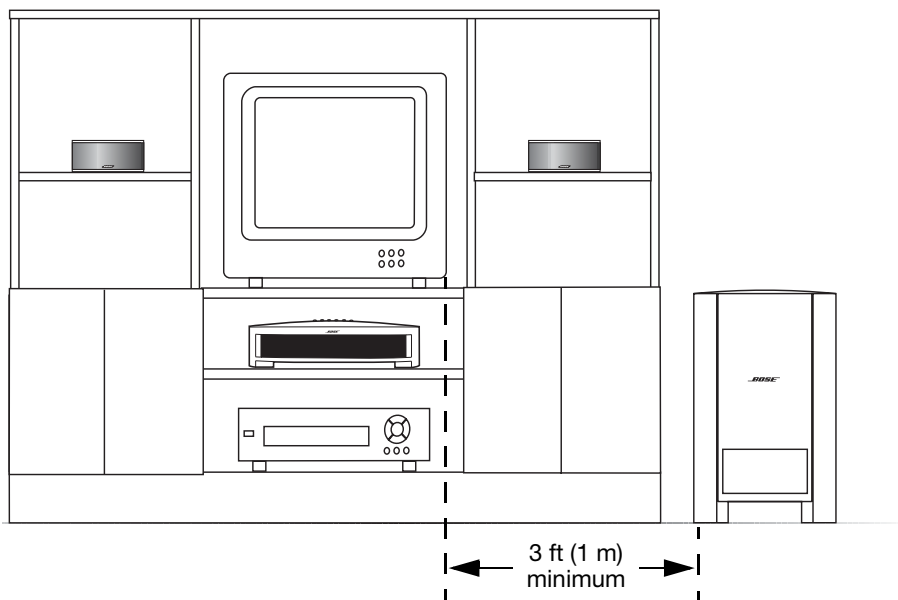
Recommended speaker placement

### Positioning the Acoustimass® module

- Place the module at the same end of the room as the TV and the speakers (Figure 4).
- Keep the module at least **3 feet (1 meter)** away from the TV to prevent the module from interfering with the TV screen.
- Place the Acoustimass® module within reach of the cable from the music center and an AC (mains) power outlet.
- Choose a convenient location, such as under a table, behind a sofa or chair, or behind drapes, but do not block the port opening.

**Figure 4**

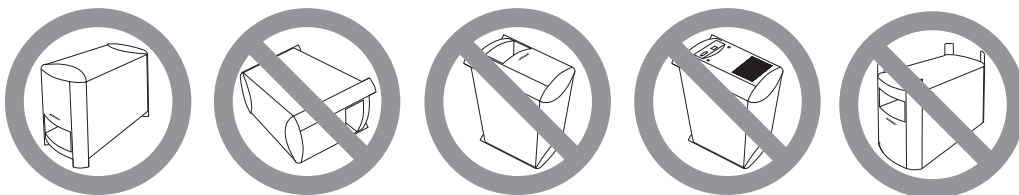
Recommended  
Acoustimass module  
placement



- Attach the large rubber feet to the bottom of each foot on the module. The rubber feet provide increased stability and protection from scratches.
- Aim the port of the module into the room or along the wall. This prevents a blocked port or over-powering bass.
- Stand the Acoustimass module on its feet. Do not lay it on its side or stand it on either end (Figure 5).

**Figure 5**

Recommended orientation  
of the module



**CAUTION:** Do not block the openings on the back of the module, which provide ventilation for the built-in circuitry.

**CAUTION:** The Acoustimass module generates a magnetic field. Although this is not an immediate risk to your video tapes, audio tapes, and other magnetic media, you should not store any of these items directly on or near the module.

## Making system connections

**CAUTION:** Do not plug the Acoustimass® module into an AC power (mains) outlet until all the components are connected.

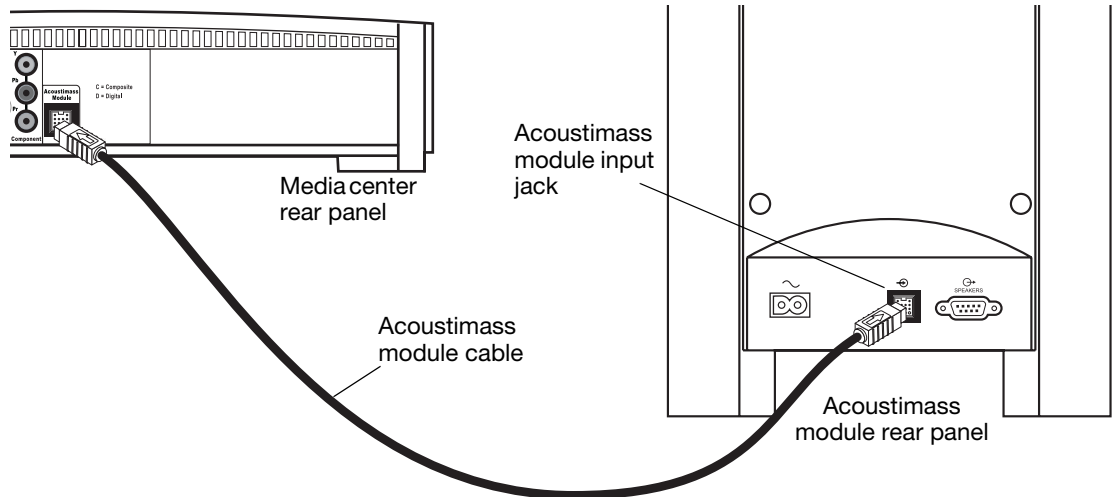
### Connecting the Acoustimass® module to the media center

Plug one end of the Acoustimass module cable into the **Acoustimass Module** jack on the rear of the media center (Figure 6). Plug the other end of the cable into the input (⊖ ⊕) jack on the rear of the Acoustimass module.

**Note:** The jacks for the Acoustimass module cable are keyed so that the cable connectors only plug in one way. Make sure that the arrow on the connector body faces up when plugging in the cable.

**Figure 6**

Acoustimass module-to-media center connection

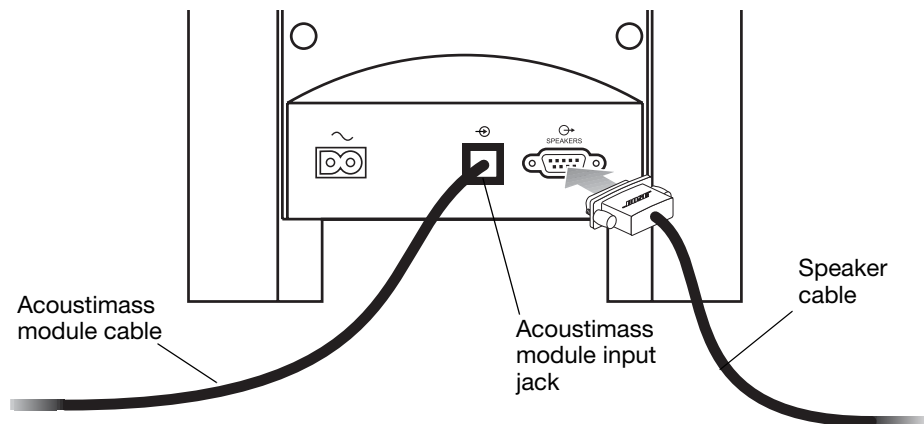


### Connecting the speakers to the Acoustimass module

1. Insert the single-plug end of the speaker cable into the **SPEAKERS** jack on the rear panel of the Acoustimass module (Figure 7). Tighten both screws on the plug.

**Figure 7**

Speaker cable-to-Acoustimass module connection

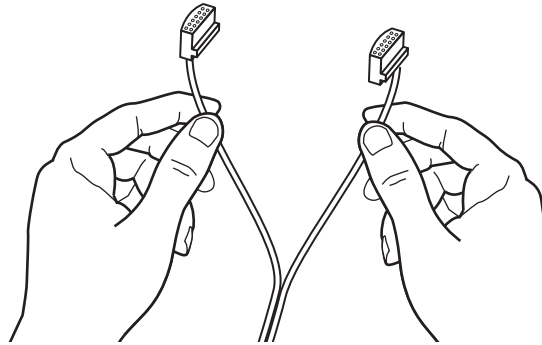


**Note:** If additional audio cables or longer cables are needed to make these connections, contact Bose® Customer Service. Refer to the list of offices included in the product carton.

2. At the other end of the speaker cable, separate the left and right speaker cords as much as necessary to reach each speaker (Figure 8).

**Figure 8**

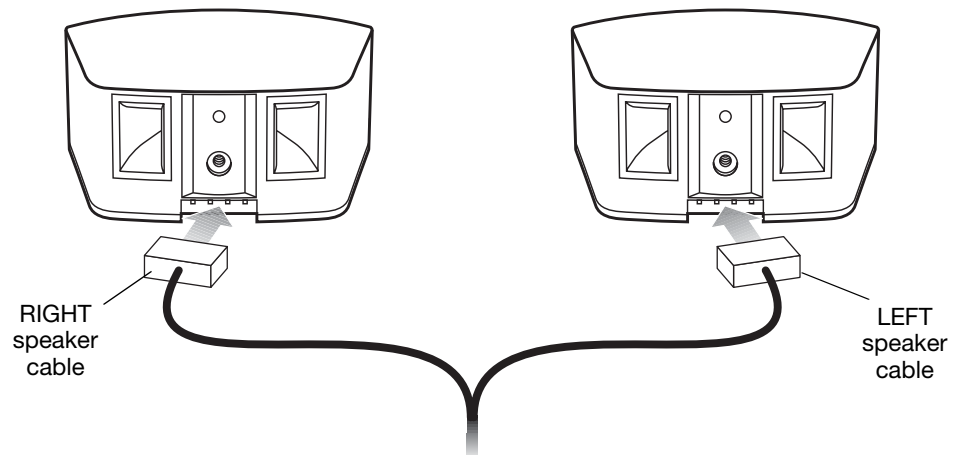
Separating left and right speaker cords



3. Plug the **LEFT** speaker cable into the rear jack of the left speaker (Figure 9). Plug the **RIGHT** speaker cable into the rear jack on the right speaker.

**Figure 9**

Left and right speaker connections



🎵 **Note:** Make sure cable connectors are fully inserted and seated firmly in the speaker jacks.

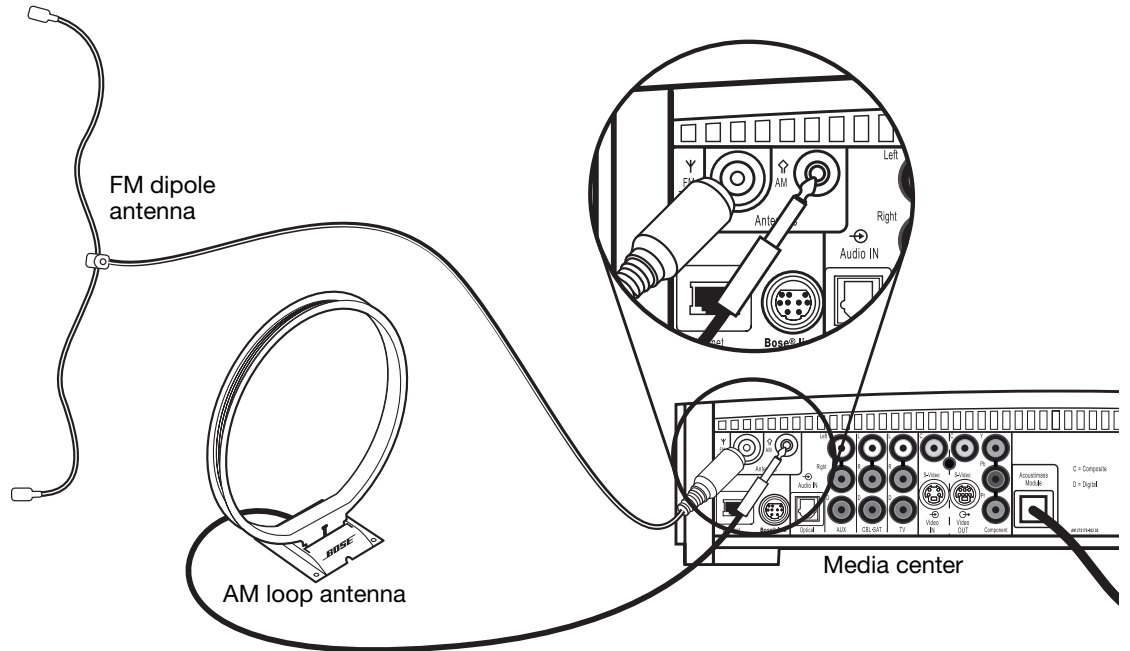
## Connecting the supplied antennas

The rear panel of the media center provides jacks for the AM and FM antennas included with your system (Figure 10). Unwind the wires for each antenna to provide the best reception.

🎵 **Note:** An outdoor antenna may be used in place of the supplied indoor antennas. To add an outdoor antenna, consult a qualified installer. Follow all safety instructions supplied with the antenna.

**Figure 10**

Antenna connections



### FM antenna

Plug the FM antenna into the **FM** jack on the media center rear panel. Spread out the antenna arms and move them around to establish optimum FM reception. Extend the antenna as far from the media center and other equipment as possible.

### AM antenna

Plug the AM loop antenna into the **AM** jack on the media center rear panel. Place the antenna loop at least 20 inches (50 centimeters) away from the media center and at least 4 feet (1.2 meters) away from the Acoustimass® module. Experiment with positioning the loop for optimum AM reception. Follow the instructions enclosed with the AM loop antenna to stand it on the supplied base or mount it to a wall.

## Connecting cable FM radio

Some cable TV providers make FM radio signals available through the cable service to your home. This connection is made to the external FM jack on the back panel of the media center. To connect to this service, contact your cable TV provider for assistance.

🎵 **Note:** Make sure that the cable radio installation includes a TV/FM splitter so that only the FM radio band, not the cable TV band, is received by the media center. If necessary, contact your cable company.

## Connecting your TV to the media center

If you want to use the 3•2•1 GSX system with both a TV and a VCR, skip this section and go to “Connecting your TV and VCR to the media center” on page 16.

### Making audio connections

♪ **Note:** If your TV does not have audio output jacks, see “Option B: TV (NO audio output jacks) + VCR + media center” on page 17. Otherwise, continue.

1. Connect one end of the supplied stereo cable to the **TV Audio IN** jacks on the rear panel of the media center (Figure 11). Insert the white RCA plug into the **TV** white **L** jack. Insert the red RCA plug into the **TV** red **R** jack.
2. Connect the other end of the stereo cable to the audio output jacks on your TV. Insert the white RCA plug into the white **AUDIO OUT L** jack. Insert the red RCA plug into the red **AUDIO OUT R** jack.

### Making composite video connections

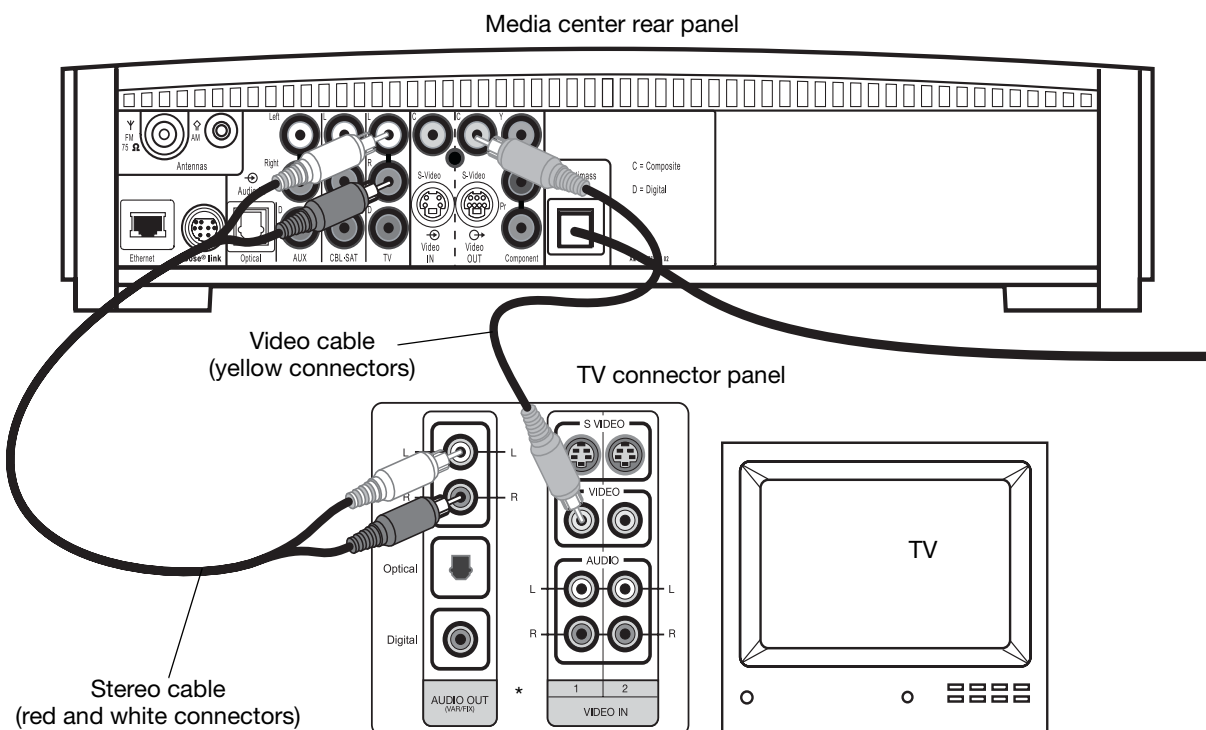
♪ **Note:** Some older TVs with standard TV cable connectors do not have a composite video or an S-video input. Such TVs are not compatible with any DVD players and require use of an RF modulator for this connection. RF modulators are available at your local electronics store.

1. Insert one end of the supplied video cable (yellow) to the **Video OUT C** (composite) jack on the back of the media center (Figure 11).
2. Insert the other end of the video cable into one of the video input jacks on your TV.

**Figure 11**

TV (composite video)-to-media center connections

**Write the name of the video input jack used on your TV in the box on page 25. After you turn on the system, you will need to select this video input on your TV in order to view the 3•2•1 GSX system video output.**



## Connecting your TV and VCR to the media center

There are two options for connecting your TV and VCR to the media center.

- **Option A:** TV with audio output jacks+VCR
- **Option B:** TV *without* audio output jacks+VCR

Before proceeding, check your TV for audio output jacks.

### **Option A: TV (with audio output jacks) + VCR + media center**

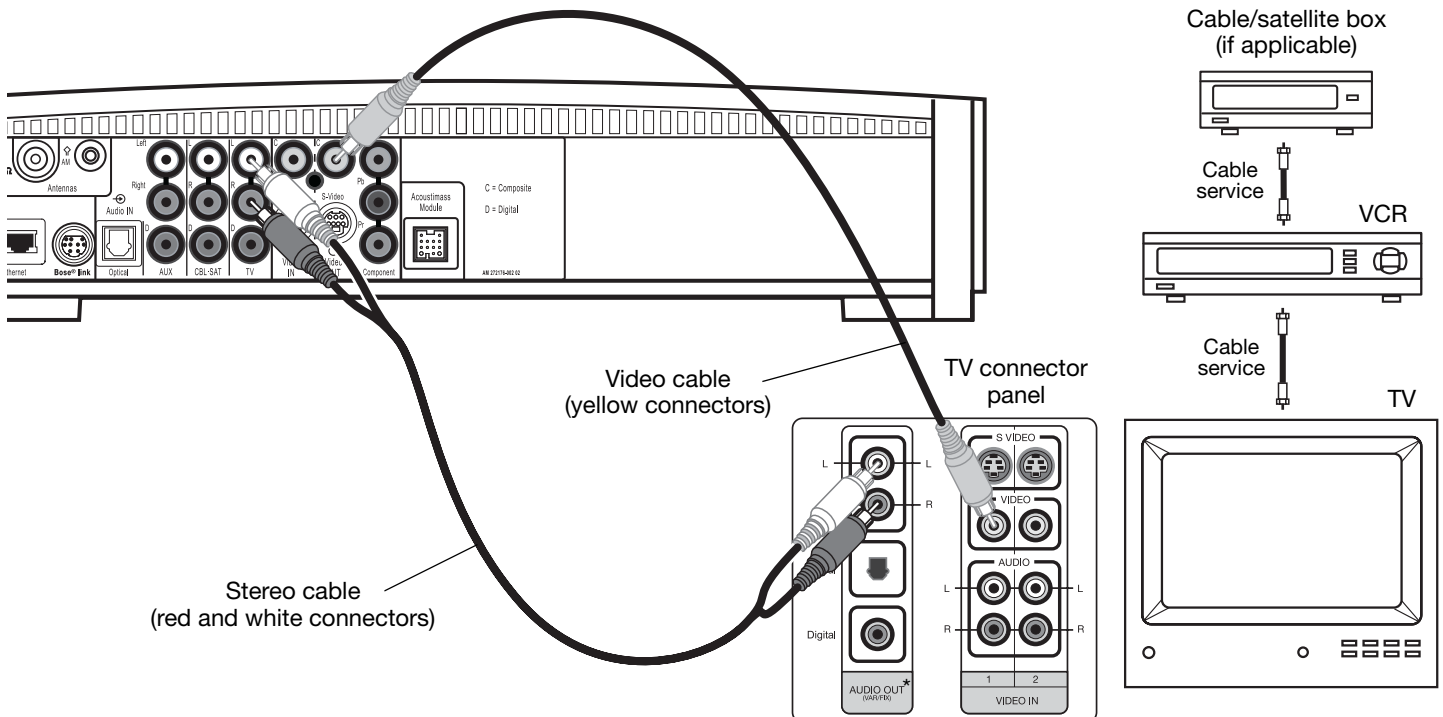
If your TV has audio output jacks, you can directly route the TV audio to the 3•2•1 GSX home entertainment system (Figure 12).

1. Connect one end of the supplied stereo cable to the **TV Audio IN** jacks on the rear panel of the media center. Insert the white RCA plug into the **TV white L** jack. Insert the red RCA plug into the **TV red R** jack.
2. Connect the other end of the stereo cable to the audio output jacks on your TV. Insert the white RCA plug into the white **AUDIO OUT L** jack. Insert the red RCA plug into the red **AUDIO OUT R** jack.
3. Insert one end of the supplied video cable (yellow) to the **Video OUT C** (composite) jack on the back of the media center. Insert the other end of the video cable into one of the video input jacks on your TV.

**Figure 12**

Option A connections

**Write the name of the video input jack used on your TV in the box on page 25. After you turn on the system, you will need to select this video input on your TV in order to view the 3•2•1 GSX system video output.**





**Option B: TV (NO audio output jacks) + VCR + media center**

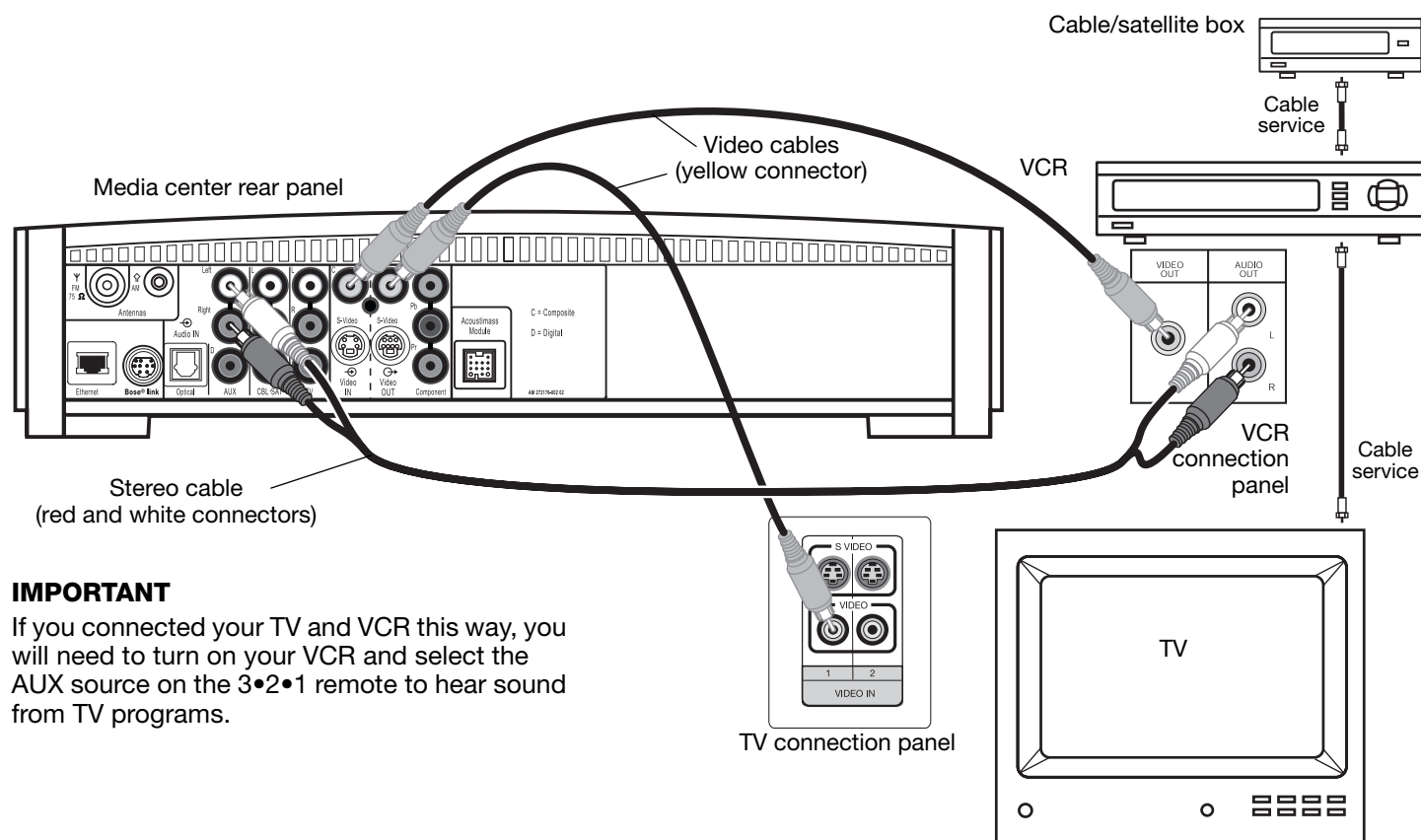
If your TV does not have audio output jacks, you will need to feed audio to the 3•2•1 GSX home entertainment system through a secondary source, such as a VCR. To do this, you will need one additional video cable, which can be purchased at your local electronics store.

1. Connect one end of the supplied stereo cable to the **AUX Audio IN** jacks on the rear panel of the media center (Figure 13). Insert the white RCA plug into the **AUX** white **L** jack. Insert the red RCA plug into the **AUX** red **R** jack.
2. Connect the other end of the stereo cable to the **AUDIO OUT** jacks on your VCR. Insert the white RCA plug into the white **AUDIO OUT L** jack. Insert the red RCA plug into the red **AUDIO OUT R** jack.
3. Insert one end of the supplied video cable (yellow) into the **VIDEO OUT** jack on the back of your VCR. Insert the other end of the cable into the **Video IN C** (composite) jack on the back of the media center.
4. Insert one end of the second video cable (yellow) into the **Video OUT C** (composite) jack on the back of the media center. Insert the other end of the cable into one of the video input jacks on your TV.

**Figure 13**

Option B connections

**Write the name of the video input jack used on your TV in the box on page 25. After you turn on the system, you will need to select this video input on your TV in order to view the 3•2•1 GSX system video output.**

**IMPORTANT**

If you connected your TV and VCR this way, you will need to turn on your VCR and select the AUX source on the 3•2•1 remote to hear sound from TV programs.

### VCR considerations

- Some combination TV/VCR units may not work with 3•2•1 GSX home entertainment systems. Please refer to your TV/VCR owner's manual for information.
- A stereo VCR is required for optimal sound performance. If your VCR has only one audio output, you have a mono VCR. You will need a Y-adaptor cable (available at electronics stores) to connect audio to the media center. For this setup, you will need to select "Mono decoding" (see "TV, CBL•SAT, and AUX Settings menu" on page 53) so your 3•2•1 GSX system will simulate surround sound effects from a mono source. Otherwise, you will hear mono sound from both speakers.

### Advanced setup options

The 3•2•1 GSX home entertainment system provides connections for producing higher quality video and audio. The following describes how to use these connections.

#### Making S-video connections (higher-quality video)

An S-video input jack, provided on many TVs, delivers a higher-quality TV picture than the composite video output connection shown in Figure 11. For this connection, you will need an S-video cable, which can be purchased from your Bose® dealer or a local electronics retailer.

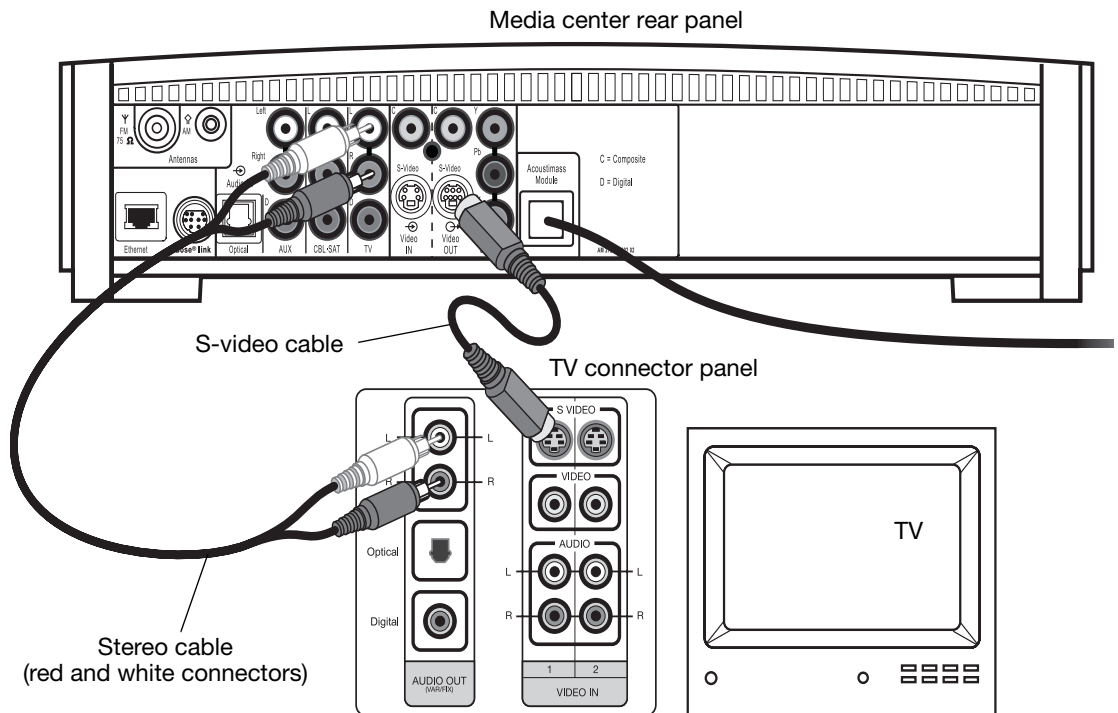
1. Insert one end of the S-video cable into the **S-Video OUT** jack on the media center (Figure 14).
2. Insert the other end of the S-video cable into the **S-VIDEO IN** jack on your TV.

**Figure 14**

TV (S-video)-to-media center connections

#### IMPORTANT

If you use S-video to connect your TV to the media center, you must also use S-video to connect all other devices (such as a cable box and VCR) to the media center.



## Making component video connections (highest-quality video)

**Note:** Component video connections are required in order to use the progressive scan (NTSC only) feature of your 3•2•1 GSX system. Your TV must also support this feature. To turn on the progressive scan feature, see “Video options” on page 60.

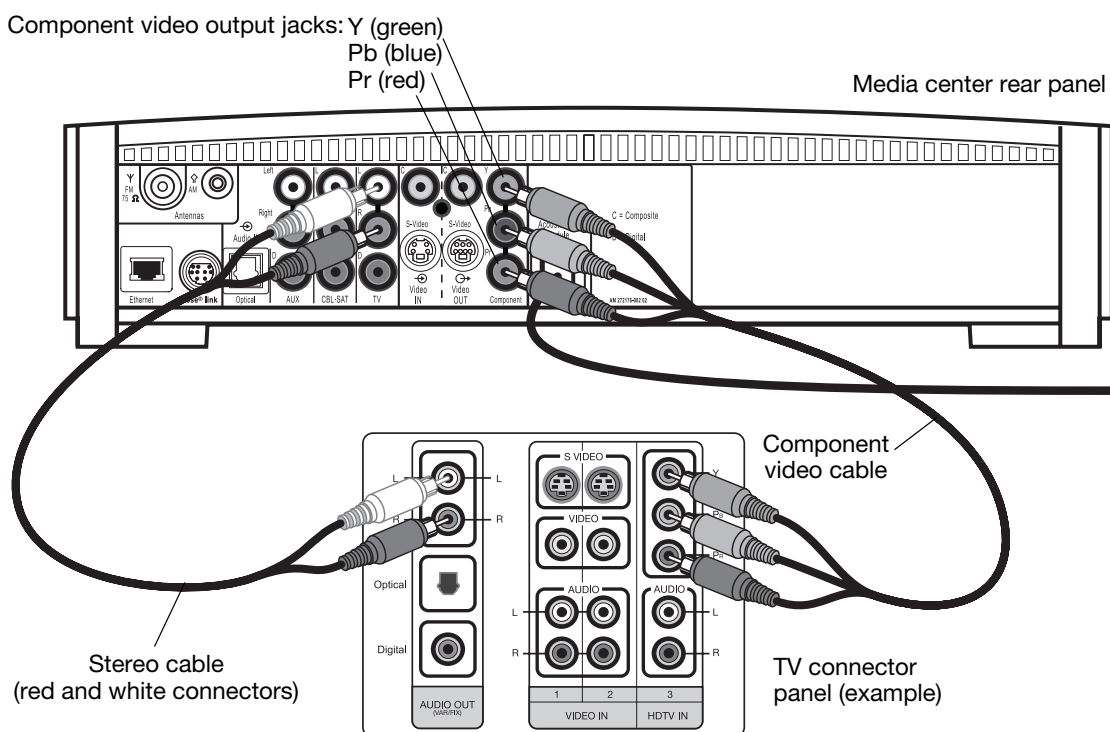
For the highest-quality video from DVDs, you may want to use a component video connection between the media center and the TV. To do so, your TV must provide component video jacks (typically labelled Y, Pb, and Pr). Refer to your TV owner’s guide for more information.

To make component video connections you will need a component video cable that is long enough to reach from the rear of the media center to your TV (Figure 15). If the cable is not supplied with your TV, you can purchase it separately.

1. On the media center rear panel, plug one end of the component video cable into the **Component Y, Pb, and Pr** video output jacks (Figure 15). Be sure to match the color of the plug with the color of the jack.
2. Plug the other end of the component video cable into the corresponding (color or letter code) component video jack on the back of your TV.

**Figure 15**

Component video TV-to-media center connections



### IMPORTANT FOR COMPONENT VIDEO USERS

Input signals received by the **C** (Composite) or **S-Video IN** jacks are not passed through to the **Component** video **OUT** jacks. If you connect an external video device to the **C** or **S-Video IN** jack, you must also connect the **C** or **S-Video OUT** jack on the media center to the respective video input jack on your TV. To view the external video input on your TV, you will need to select the TV video input used for that device. To view the onscreen menus of the 3•2•1 GSX system, you will need to switch back to the TV’s component video input.

**Note:** For more information, or to purchase the video cables, contact your local electronics store or authorized Bose® dealer.

## Connecting digital audio devices

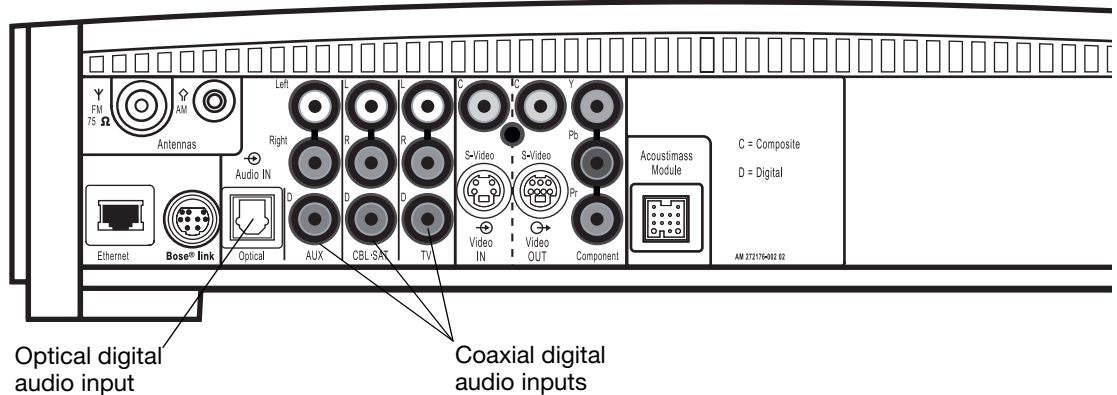
Some audio devices feature a digital audio output for optimum sound performance. Use an optical digital cable or a coaxial digital cable, as appropriate, to connect this output to the digital input on the media center. You can purchase the required cables at a local electronics store.

On the media center rear panel, an optical digital cable connects to the **Optical** jack. A coaxial cable connects to the audio input jacks labeled **D**.

🎵 **Note:** Before you can benefit from the optical connection, you will need to assign the optical connector to the audio source in the system settings menu. See “Media center options” on page 61.

**Figure 16**

Media center digital audio input jacks



Optical digital audio input

Coaxial digital audio inputs

## Connecting your cable/satellite box, TV, and VCR to the media center

The 3•2•1 GSX home entertainment system provides flexibility for you to add up to three external audio devices, including your TV, directly to the media center.

Figure 17 shows you an advanced setup using a TV, VCR, and cable/satellite box. In this setup, please notice the following:

- S-video connections are used to deliver the cable/satellite signal to the media center. Therefore, the media center output video is sent to the TV also through an S-video connection.
- Analog and digital coaxial audio connections are shown for the cable/satellite box. As an option, you may use an optical digital connection. However, before you can benefit from the optical connection, you will need to assign the optical connector to the cable/satellite box audio source in the system settings menu. See “Media center options” on page 61.
- When connecting an audio device to the media center jacks, remember to match the red jack to the right channel (R) and the white (or black) jack to the left channel (L).
- For further details on making the video connections between your VCR and TV, refer to the manuals for these video devices.

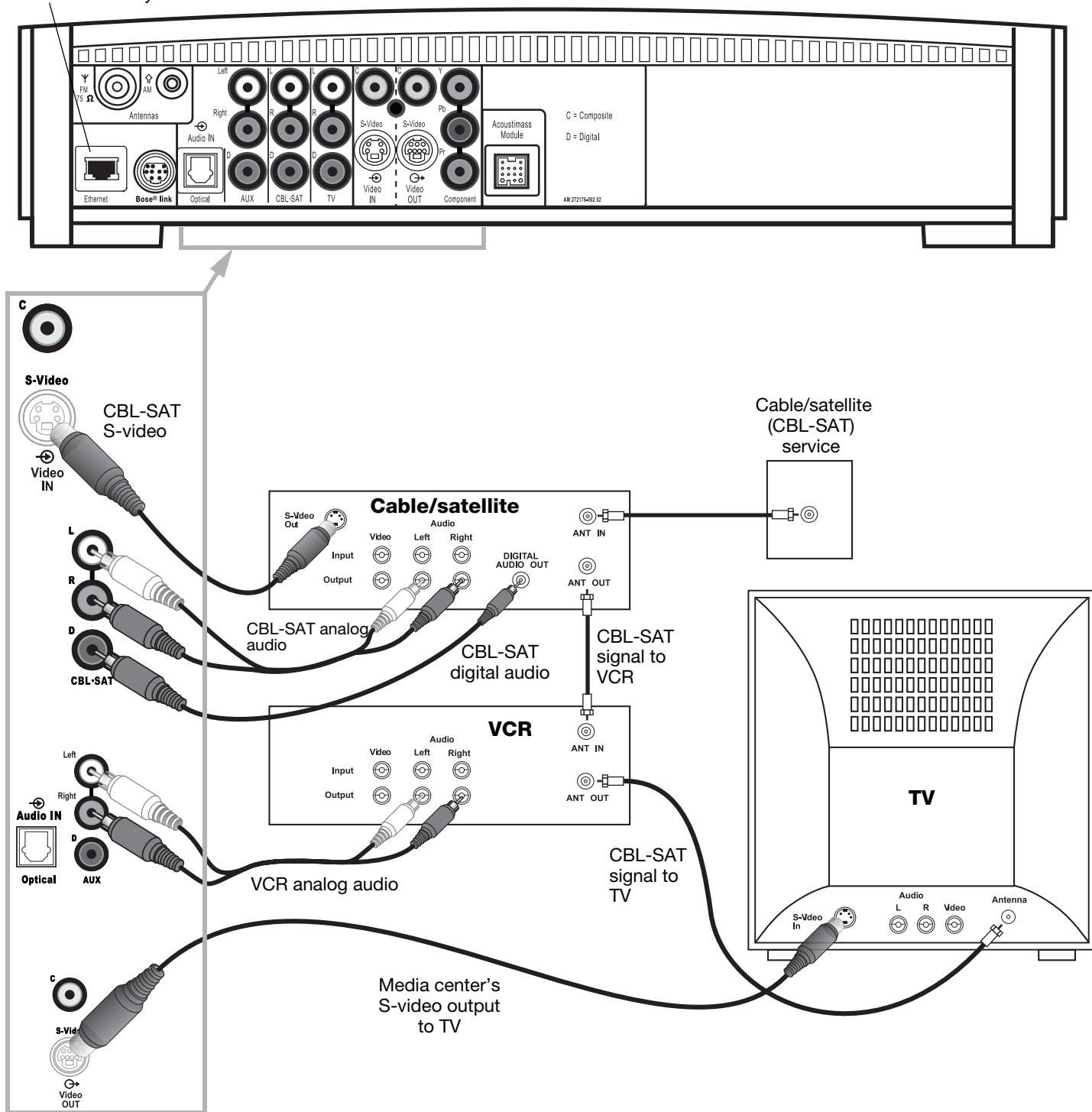
🎵 **Note:** The recommendations contained in this owner’s guide are basic suggestions for connecting external devices to the 3•2•1 GSX system. Instructions and terminology pertinent to these external devices may vary, depending on the manufacturer. Consult the owner’s guide that came with the device for clarification on setup and usage before making any connections.

**Figure 17**

Advanced setup example:  
TV, VCR, and cable/satellite  
box

For future use only.

**Media center**



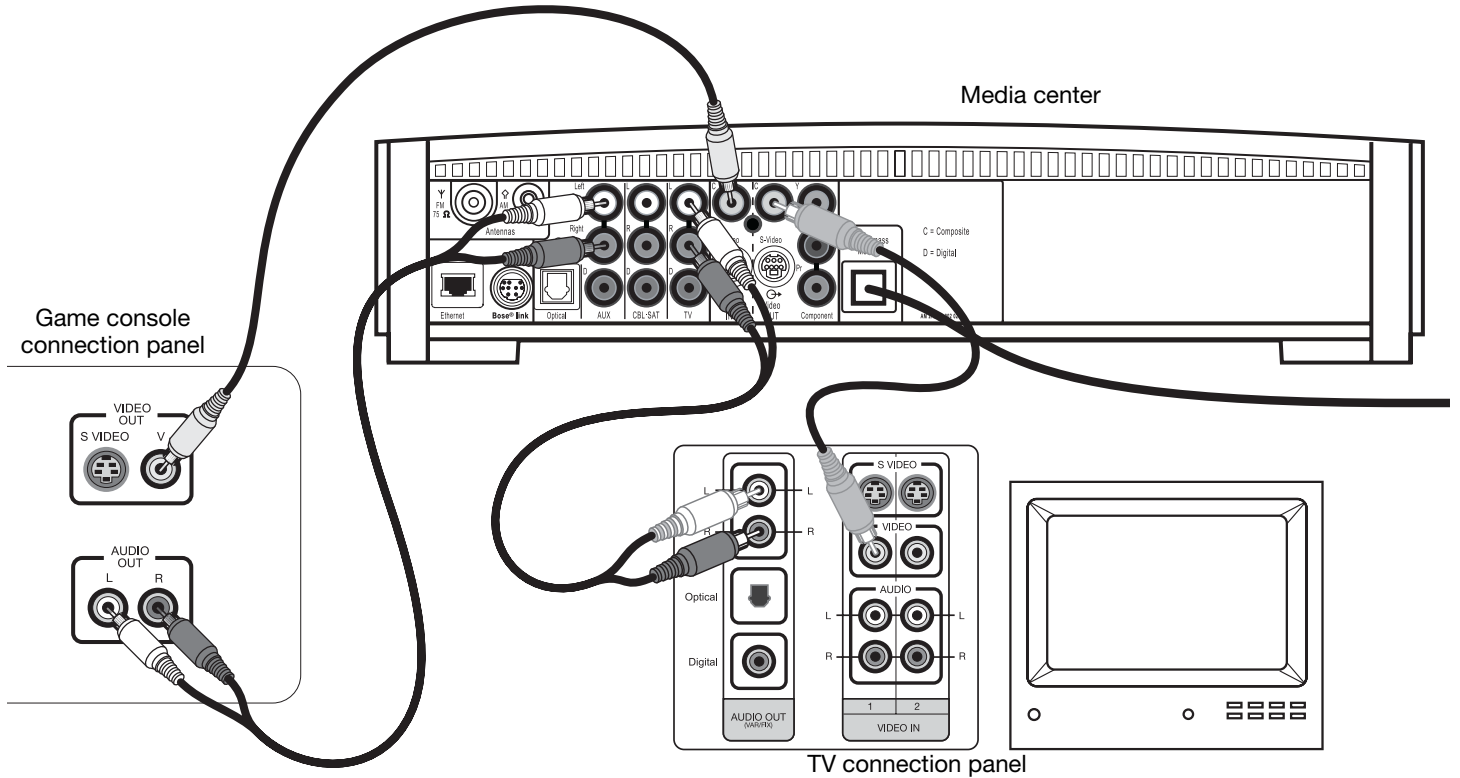
**Note:** For more information on advanced connections, refer to the DVD setup disc that came with your 3•2•1 GSX home entertainment system.

## Connecting a game console

Connect the audio output of a game console to the **AUX Left** and **Right** input jacks. Connect the video output of the game console to the **C** (composite) **Video IN** jack.

**Figure 18**

Game console connections



### IMPORTANT

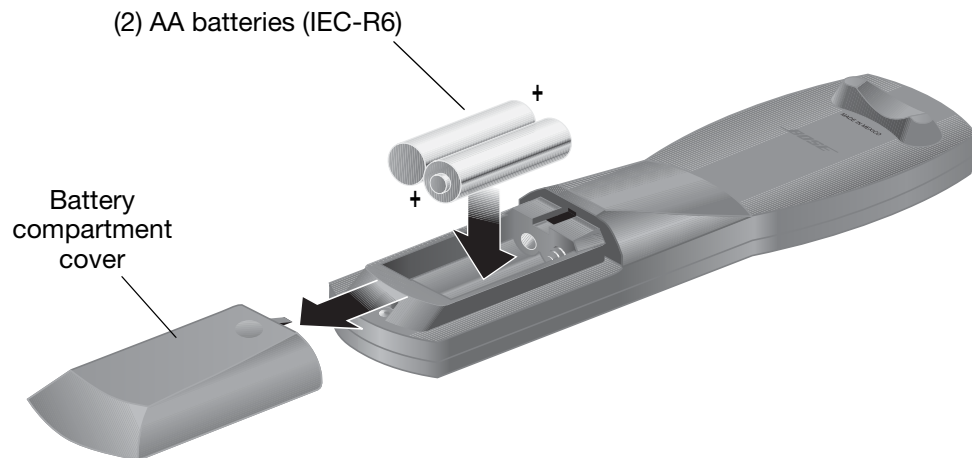
If you connected your game console this way, you will need to select the AUX source on the 3•2•1 remote in order to hear sound from the game console.

## Installing the remote control batteries

1. On the back of the remote, slide open the battery compartment (Figure 19).
  2. Insert the two supplied AA (IEC-R6) 1.5V batteries, or their equivalent, as shown. Match the plus (+) and minus (-) marked on the batteries with the plus (+) and minus (-) inside the battery compartment.
  3. Slide the battery compartment cover back into place.
- Note:** Replace the batteries when the remote control stops operating or its range seems reduced.

**Figure 19**

Installing the batteries



## Connecting the power cord

**⚠ CAUTION:** Do not plug the Acoustimass® module into an AC power (mains) outlet until all the components are connected.

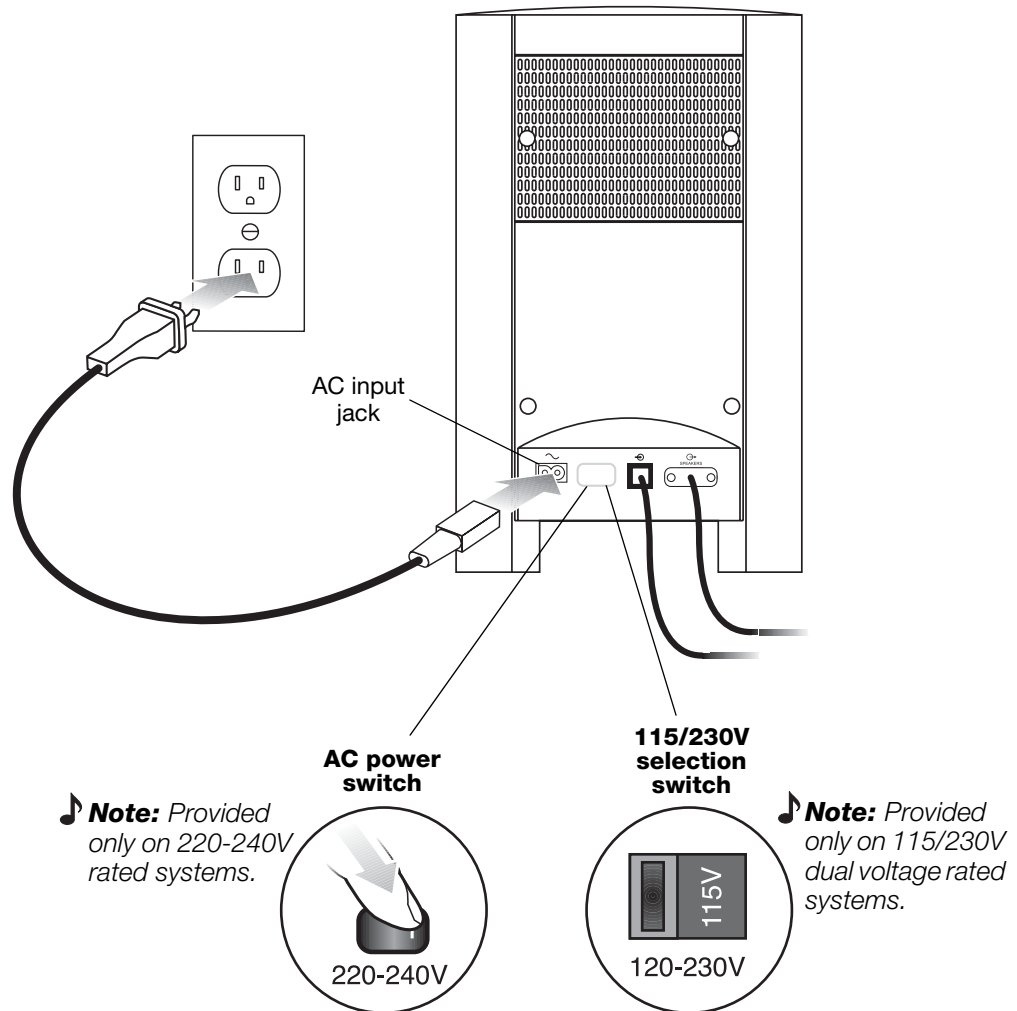
**⚠ CAUTION:** For dual voltage models only, be sure to set the dual voltage switch on the back of the Acoustimass module to the appropriate voltage for your area (115V or 230V) before connecting to power. If you are not sure about the proper voltage for your area, consult your local electrical authorities.

1. Insert the small connector end of the power cord into the AC INPUT connector on the Acoustimass module (Figure 20).
2. Insert the large end of the cord into an AC power (mains) outlet.

**🎵 Note:** On 220-240V models only, turn the Acoustimass module POWER switch to on (I).

**Figure 20**

Connecting to power



**🎵 Note:** Bose recommends using a safety agency-approved surge protector on all electronic equipment. Voltage variations and spikes can damage electronic components in any system. A quality suppressor can eliminate the vast majority of failures attributed to surges and may be purchased at electronics stores.



## Verifying your system setup

Follow these steps when turning on your system for the first time. Be sure to perform step 4 and play the setup DVD. The setup DVD can help you verify that you set up your system correctly for proper sound performance.

### 1. Check the following before you continue:

- All cables are connected for the setup you chose.
- The batteries were installed in the remote control.
- The power cord was installed and plugged into a live AC receptacle.

### 2. Turn on your TV.

Use the remote control that came with your TV.

### 3. Using your TV remote, select the video input on your TV that connects to the video output of the media center.

Name TV video input used:

- The method of selecting the right video input depends on your TV. Refer to your TV owner's guide for help.

### 4. Play the 3•2•1 GSX setup DVD.

- A. Turn on your 3•2•1 GSX system. Point the 3•2•1 GSX remote control at the media center and press **On-Off**.
- B. Press **Eject** on the media center control panel.
- C. Insert the DVD setup disc into the disc tray.
- D. Press **Eject** again to close the tray. The DVD will automatically begin to play. If it does not, press the play button (▶).

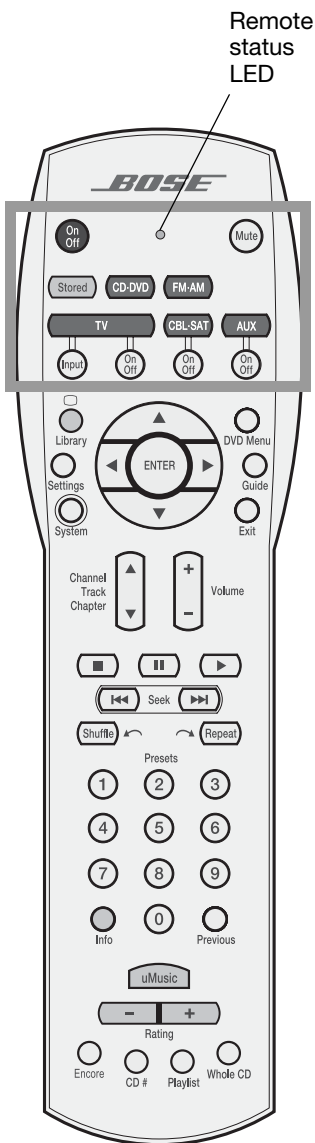
### 5. Turn off the TV speakers.

- Refer to your TV owner's guide for help.
- If your TV does not have an option to turn off the internal speakers, you may need to adjust both the 3•2•1 GSX system volume and your TV volume until you find a level that produces the desired sound.
- In some TVs, when the internal speakers are turned off, you may need to raise the TV's volume level by 75% to 100% in order to hear audio from the 3•2•1 GSX home entertainment system. See your TV owner's guide for help.

**Note:** Be sure to play the setup DVD, included in the carton with your system, as soon as all the connections are completed. This will help you verify the connections you have made and confirm proper sound performance.

# SYSTEM CONTROLS AND INDICATORS

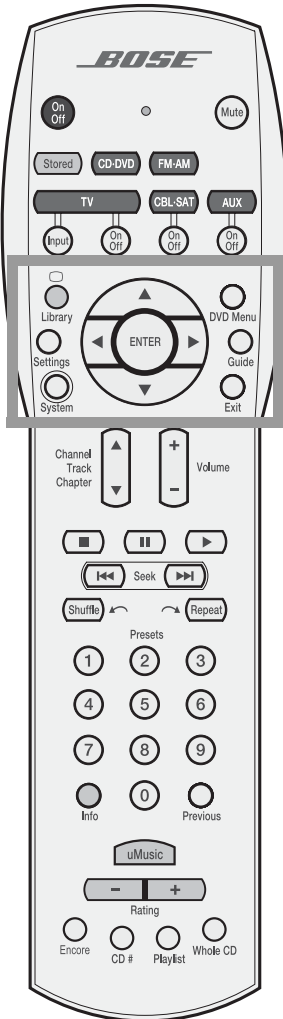
## Remote control








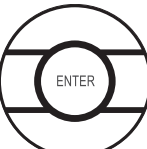



- On/Off**
  - Turns the system on or off.
- Status LED:**
  - Off (unlit) during normal operation.
  - On during the process of setting up the remote to control other equipment such as your TV or VCR.
- Mute**
  - Silences or restores the sound from the current source.
- Stored**
  - Selects the Stored CD source and turns on the system to the last-selected uMusic® intelligent playback system play mode.
- CD-DVD**
  - Selects the built-in CD/DVD player and turns on the system.
- FM-AM**
  - Selects the built-in tuner and turns on the system to the previously selected FM/AM station.
  - Switches between FM and AM when the tuner is selected.
- TV**
  - **TV:** Selects the TV sound source and turns on the system.
  - **Input:** Changes the external input to your TV. For example, your TV might have two external inputs where one is connected to your cable box and the other to your VCR. Pressing this button alternates between the cable box and the VCR.\*
  - **On/Off:** Turns your TV on and off.\*
- CBL-SAT**
  - **CBL-SAT:** Selects the CBL-SAT sound source and turns on the system.
  - **On/Off:** Turns your cable/satellite box on or off.\*
- AUX**
  - **AUX:** Selects the AUX sound source and turns on the system.
  - **On/Off:** Turns a VCR or PVR that is connected to the AUX jack on or off.\*

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 31.

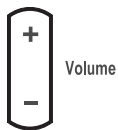
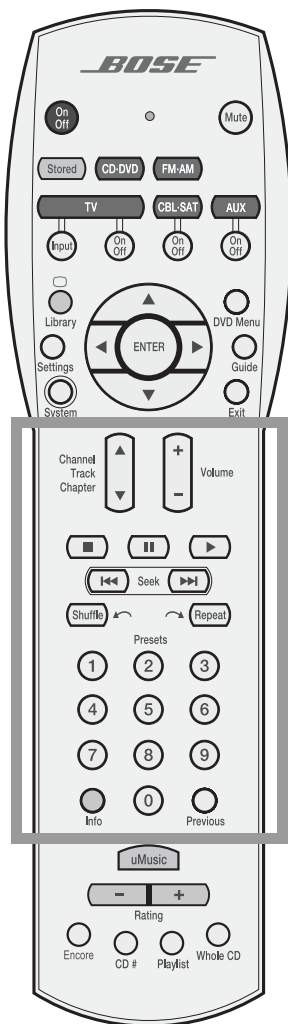
**Remote control – cont.**



- 
  - When **Stored** is the selected source, enters the library of stored CD tracks.
- 
  - Displays the Settings menu for the current source on your TV screen or media center display.
- 
  - Displays the System menu on your TV screen.
- 
  - Displays the DVD menu of the currently loaded DVD disc on your TV screen.
  - Displays the main menu of a cable/satellite box, VCR, or PVR on your TV screen (if supported).\*
- 
  - Puts the TV, cable, satellite, or DVR program guide (if supported) on your TV screen.
- 
  - Removes the Settings and System menus from your TV screen.
  - Removes on-screen menus for TV, cable/satellite box, or VCR/DVR from your TV screen.\*
- 
  - Tunes the FM or AM radio to the next higher or lower frequency.
  - Selects the next item, up or down, in menus.
- 
  - Confirms a menu selection or introduces the next level of menu options.
- 
  - Moves up, down, left, or right in on-screen menus and media center displays.

\*Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 31.

**Remote control – cont.**



Volume

- Raises or lowers the volume of the current source.
- Pressing + restores muted sound from the current source.
- Pressing – lowers the volume of the current source, but does not restore muted sound.



Channel Track Chapter

- Skips to the next or previous TV channel,\* CD track, or DVD chapter.



- Stops the disc player.
- For DVDs only, the disc stops and the system saves the DVD play position. Pressing [▶] continues the DVD from the saved play position. Pressing [■] twice for a disc in play returns to the beginning of the disc.



- Pauses a currently playing disc.
- Pressing [⏏] again (or pressing [▶]) resumes play of a paused disc.
- After 20 minutes of no user interaction, the disc player stops and returns to the beginning of the disc to wait for the next command.



- Starts the disc player.



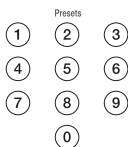
- Skips backward or forward through CD tracks, DVD chapters, or to the next strongest radio station.



- Plays audio CD tracks in random order. Press again to cancel.
- Starts instant replay (↶) for DVR (if supported).



- Repeats a CD, CD track, DVD chapter, or DVD title depending on the selected source. Press again to change the repeat mode.
- Initiates Quick Skip and/or Return to Live (↶) for DVR (if supported).



Presets

- Selects a CD track, DVD chapter, radio station preset, or TV channel.
- Selects a uMusic® preset for the Stored source.
- Allows numerical selection for some menu options.



Info

- Displays or dismisses a cable/satellite information window (if supported).
- If playing an MP3 CD, displays or dismisses artist and title information on the media center display panel.
- Displays information about the stored track that is playing.

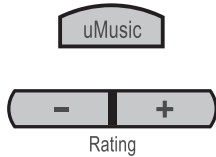
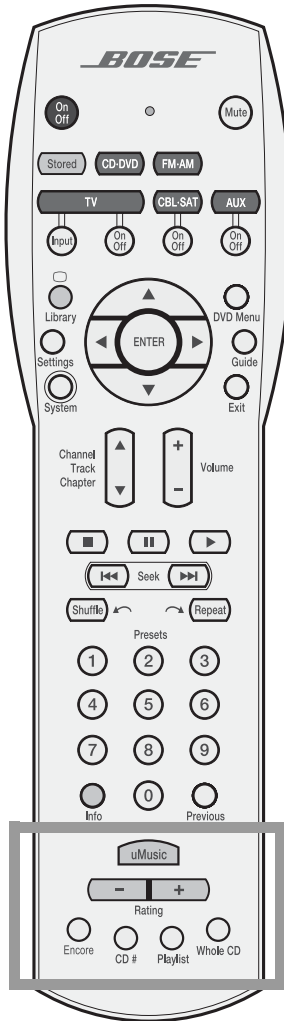


Previous

- Skips to the previous TV channel (if supported by your TV or cable/satellite box).

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 31.

**Remote control – cont.**



Rating



Encore



CD #



Playlist



Whole CD

*In Stored source*, selects the uMusic® intelligent playback system for playing stored music. Overrides any other stored music play mode.

• *In Stored source*, applies a negative (-) or positive (+) rating to the stored track currently playing. Pressing - immediately selects a new track. Pressing + continues playing the current track.

• *In an on-screen program guide*, scrolls down (-) or up (+) to reveal additional content for your cable, satellite box, or VCR/DVR.\*

*In Stored source*, selects and plays stored music that most closely matches the style of the current track.

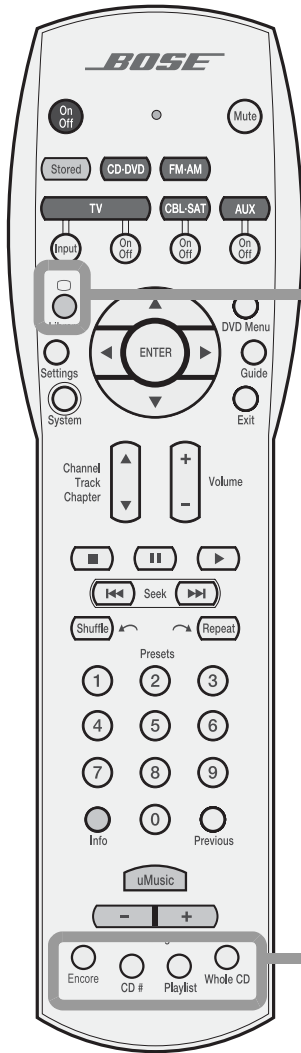
*In Stored source*, plays the tracks from a CD selected by its number in the uMusic system.

*In Stored source*, plays all the tracks, if any, assigned to the playlist. Can be used with other play mode options, like Encore.

*In Stored source*, skips from the track most recently playing to the first track on the CD of origin and plays that CD from beginning to end.

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 31.

**Remote control – cont.**



**Aspect ratio or Teletext On/Off control**

You will see one of two symbols above the Library button on your remote control. The symbol defines the function.

Symbol	Function
	When a video source is selected, changes the video aspect ratio between Normal (4:3) and Widescreen (16:9).
	<b>For Europe, only</b> When the TV source is selected, turns the Teletext mode On or Off.

**Recording/Cable or Teletext controls**

These four buttons will be marked in one of two ways on your remote. The markings define how the buttons are used.

Button markings	Functions
<p>Red (Record)</p>	<ul style="list-style-type: none"> <li>When a VCR, DVR, or other video recording device is selected, the Red button activates the record function.*</li> <li>When a cable source is selected, <b>A, B,</b> and <b>C</b> are used for cable-related functions.*</li> </ul>
<p>Red      Green      Yellow      Blue</p>	<p><b>For Europe, only</b> In the Teletext mode, the colored buttons are used for Teletext-related functions.</p>

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 31.

## Setting up your remote to control other audio/video devices

Your remote can be set up to control other audio/video devices such as a TV, VCR, PVR, or cable/satellite box by entering a device code while in the setup mode.

- **If you know the device code, follow the instructions under the heading, “Direct entry of a device code”** below. Device codes are listed in the back section of this owner’s guide and in the System menus under Remote Control options.
- **If you can’t find the device code and want to search the system for it, see “Searching for a device code” on page 32.**
- **If you want to verify the device code you have entered for an audio/video device, see “Verifying an entered device code” on page 34.**
- **If you want to return to a previous device assignment,** press and hold the **TV** button until the remote LED is lit (about 5 seconds). On the remote keypad, enter 977.
- **If you want to wipe out all assigned codes,** press and hold the **TV** button until the remote LED is lit (about 5 seconds). On the remote keypad, enter 981.

♪ **Note:** More than one code may work with your particular brand of product. If you notice a lack of response or limited functionality after setting up the remote, try a different code.

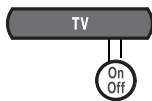
♪ **Note:** The remote status LED flashes rapidly eight times if you press an invalid key, or enter an unavailable device code. Wait seven seconds for the error to clear and start again.

### Direct entry of a device code

Device codes can be found at the back of this owner’s guide or in the System menu under Remote Control options. If you know the device code, you can do the following:

#### To set up the remote to control your TV

1. Turn on both the 3•2•1 GSX system and your TV.
2. Press and hold the **TV** button until the remote LED is lit (about five seconds).
3. On the remote keypad, enter the four-digit device code for your TV. The LED will turn off temporarily as you press each key.
4. Check that the LED turns off after the code is entered. If the LED blinks, the code is invalid. Try again.
5. Point the remote at your TV and press the **TV On-Off** button. If your TV does not respond, go back to Step 2 and try other codes. If you are still unsuccessful, see “Searching for a device code” on page 32.



♪ **Note:** After programming your remote to control external audio/video devices from the System menu, press the System button once to continue navigating the System menu.

#### To set up the remote to control your cable/satellite box

1. Turn on both the 3•2•1 GSX system and your cable/satellite box.
2. Press and hold the **CBL-SAT** button until the remote LED is lit (about five seconds).
3. On the remote keypad, enter the four-digit device code for your cable/satellite box. The LED will turn off temporarily as you press each key.



4. Check that the LED turns off after the code is entered. If the LED blinks, the code is invalid. Try again.

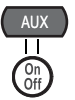


5. Point the remote at your cable/satellite box and press the **CBL-SAT On-Off** button. If your cable/satellite box does not respond, go back to Step 2 and try other codes. If you are still unsuccessful, see "Searching for a device code" below.

**To set up the remote to control your VCR or PVR (such as TiVo or Replay TV)**



1. Turn on both the 3•2•1 GSX system and your VCR or PVR.
2. Press and hold the **AUX** button until the remote LED is lit (about five seconds).
3. On the remote keypad, enter the four-digit device code for your VCR/PVR. The LED will turn off temporarily as you press each key.
4. Check that the LED turns off after the code is entered. If the LED blinks, the code is invalid. Try again.



5. Point the remote at your VCR or PVR and press the **AUX On-Off** button. If your VCR or PVR does not respond, go back to Step 2 and try other codes. If you are still unsuccessful, see "Searching for a device code" below.

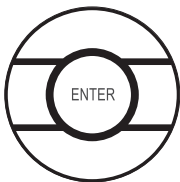
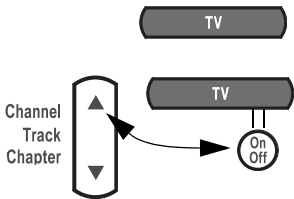
**Searching for a device code**

Use this method if you do not know the code for a device.

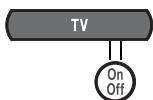
**Note:** *This is a very time-consuming process. Use it as a last resort.*

**To set up the remote to control your TV**

1. Turn on both the 3•2•1 GSX system and your TV.
2. Press and hold **TV** until the remote LED is lit (about five seconds).
3. Alternately press **Channel ▲** and **TV On-Off** until your TV turns off.



4. Press **Enter**. Check that the remote LED turns off.

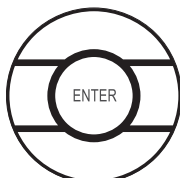
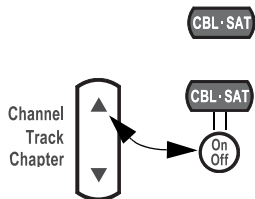


5. Point the remote at your TV and press **TV On-Off**. If your TV does not respond, go back to Step 2 and try again.



**To set up the remote to control your cable/satellite box**

1. Turn on both the 3•2•1 GSX system and your cable/satellite box.
2. Press and hold **CBL-SAT** until the remote LED is lit (about five seconds).
3. Alternately press **Channel ▲** and **CBL-SAT On-Off** until your cable/satellite box turns off.



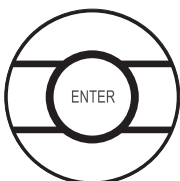
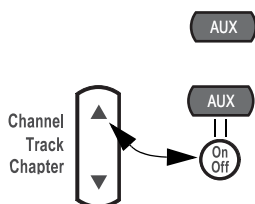
4. Press **Enter**. Check that the remote LED turns off.



5. Point the remote at your cable/satellite box and press **CBL-SAT On-Off**. If your cable/satellite box does not respond, go back to Step 2 and try again.

**To set up the remote to control your VCR or PVR (for example, TiVo or Replay TV)**

1. Turn on both the 3•2•1 GSX system and your VCR/PVR.
2. Press and hold **AUX** until the remote LED is lit (about five seconds).
3. Alternately press **Channel ▲** and **AUX On-Off** until your VCR/PVR turns off.



4. Press **Enter**. Check that the remote LED turns off.



5. Point the remote at your VCR/PVR and press **AUX On-Off**. If your VCR/PVR does not respond, go back to Step 2 and try again.

### Verifying an entered device code

In case you need to check to see what code the remote is using for a particular device, do the following:



1. Press and hold a source key (**TV**, **CBL-SAT**, or **AUX**) until the remote LED lights (about five seconds).
2. Press the **Info** button.
3. Press **1** on the remote and count the number of times the LED blinks (zero is indicated by a long blink). This is the first digit.
4. Press **2** on the remote and count the number of times the LED blinks (zero is indicated by a long blink). This is the second digit.
5. Press **3** on the remote and count the number of times the LED blinks (zero is indicated by a long blink). This is the third digit.
6. Press **4** on the remote and count the number of times the LED blinks (zero is indicated by a long blink). This is the fourth digit.



7. Press **Exit**.

### Changing the default TV channel control

With the TV source selected, your remote is set at the factory to select TV channels using your TV. If you wish to use your VCR or cable/satellite box to select TV channels, you can change the default setting in your remote.

To change the default TV channel control:



1. Press and hold **Previous** on the 3•2•1 remote. The remote status LED will illuminate and blink once for TV (factory setting), twice for CBL-SAT, or three times for AUX to identify the default TV channel control.
2. After the blinking stops, press the source button (**TV**, **CBL-SAT**, or **AUX**) that corresponds to the device you want to use for selecting TV channels.
3. Press **Exit** on the 3•2•1 remote.



To confirm, press and hold **Previous** on the 3•2•1 remote and count the number of blinks. If the change was made, press **Exit**. If not, repeat steps 2 and 3.

## Media center

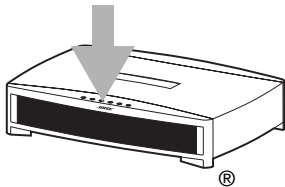
The media center has a control panel on the top, a display area to show the current status of the system, and a disc tray that opens on the front of the console.

### Control panel

The media center has six buttons located above the display.

**Figure 21**

Media center controls



**On-Off**



Turns system power on or off.

**Source**



Steps through the available source selections.

**- Volume +**



Lowers and raises the volume level.



**Store**



Copies tracks from an audio CD into the music library.

**Eject**



Opens or closes the disc tray.

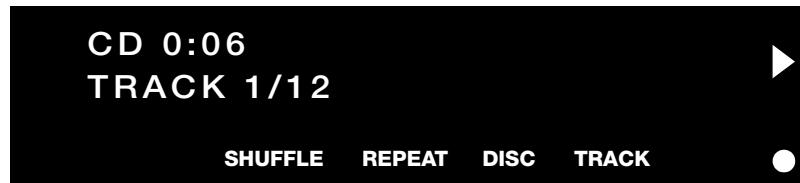
**Note:** If you select another source by pressing the **Source** button, you cannot control the new source with the remote until you press the button for that new source on the remote.

### Display indicators

With the system turned on, the media center display lights up to show the state of the system. Not all possible choices, shown below, light up at once (Figure 22). The display changes with each adjustment or selection you make.

**Figure 22**

Example media center display



Lights to indicate disc is in play.

Lights briefly when a remote control command is received.

Indicates shuffle mode is selected for the current disc.

Indicates repeat mode is selected for current track or disc.

Indicates "Repeat Disc" or "Shuffle Repeat Disc" mode is selected.

Indicates "Repeat Track" mode is selected.

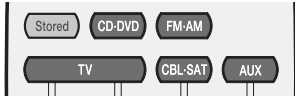
# OPERATION

## Turning your system on and off



### To turn power on or off:

- Point the 3•2•1 remote at the media center and press **On/Off**.
- OR
- Press **On/Off** on top of the media center.



### To turn on the system and select a source at the same time:

- Press **Stored**, **CD•DVD**, **FM•AM**, **TV**, **CBL•SAT**, or **AUX** on the 3•2•1 remote.

**Note:** Your 3•2•1 remote control can be set up to control other audio/video devices such as your TV, VCR, or cable/satellite receiver. For instructions, see “Setting up your remote to control other audio/video devices” on page 31.

## Playing video DVDs

### Before you play your first DVD:

- Familiarize yourself with the 3•2•1 remote control. See “Remote control” on page 26.
- Be sure you understand how to switch between the available video inputs on your TV. To view a video DVD, you will need to select the video input on your TV that is connected to the video output of the 3•2•1 GSX media center (see “Connecting your TV to the media center” on page 15).
- If you are unable to select the correct video input on your TV, please consult your TV owner’s guide.
- Be sure that you play the 3•2•1 GSX system setup DVD first. This will help you verify the connections you have made and confirm proper sound performance.

1. Turn on your TV.
2. Select the correct video input on your TV for the 3•2•1 GSX system.
3. On the 3•2•1 remote, press **CD•DVD** to turn the 3•2•1 GSX system on to the CD/DVD source.



**Eject**



4. On the media center control panel, press **Eject** to open the disc tray.

**Eject**



5. Place the DVD in the disc tray.
6. Press **Eject** again to close the tray.



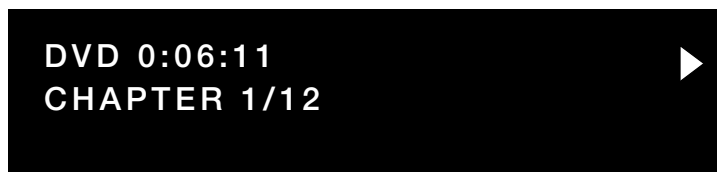
The DVD should begin to play automatically. If not, press **Play** on the 3•2•1 remote.

**Note:** Not all DVDs offer the same features. For example, you can choose to display subtitles while watching a movie only if that particular disc provides subtitle information.

While playing a DVD video, the media center displays the elapsed play time and chapter number.

**Figure 23**

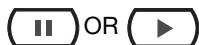
Sample display for a DVD video



### Basic DVD operations



- Press **Pause** to pause a movie.



- Press **Pause** again, or press **Play** to resume playing a paused DVD.



- Press **Stop** to interrupt a movie in progress.
  - Press **Stop** once. The system holds the movie at the point of interruption. Press **Play** to resume from the point of interruption.
  - OR
  - Press **Stop** twice. Play is interrupted and the system returns to the beginning of the disc. Press **Play** to restart the DVD.



- Press **Chapter ▲** to skip to the next chapter on the current DVD. Press **Chapter ▼** to skip to the previous chapter.



- Press **Repeat** once for REPEAT CHAPTER mode.
- Press **Repeat** again for REPEAT TITLE mode.
- Press **Repeat** again to turn off the repeat function (REPEAT OFF).



- Press **◀◀** to scan backward through the current DVD. Press **▶▶** to scan forward.

**Eject**



- Press **Eject** on the media center to stop a disc and open the disc tray.

**Note:** For information on changing DVD-related source settings, see “DVD Settings menu” on page 52.

### Restricting access to video DVDs

The DVD Lock menu allows you to restrict access to DVD content that is inappropriate for certain members of your family. For instructions on using the DVD Lock menu, see “DVD Lock options” on page 63.

## Playing audio CDs



**Eject**



**Eject**



1. On the 3•2•1 remote, press **CD•DVD** to turn the 3•2•1 GSX system on to the CD/DVD source.
2. On the media center control panel, press **Eject** to open the disc tray.
3. Place the CD disc in the disc tray.
4. Press **Eject** again to close the tray.
5. The audio CD should begin to play automatically. If not, press **Play** on the 3•2•1 remote.

### Basic CD operations



- Press **Pause** to pause an audio CD.



- Press **Pause** again, or press **Play** to resume playing a paused CD.



- Press **Stop** to stop a playing audio CD.



- Press **Track ▲** to skip to the next track on the current CD. Press **Track ▼** to skip to the previous track.



- Press **Seek ►►** once to skip to the next track.
- Within the first 2 seconds of play, press **Seek ◀◀** to skip to the previous track. After 2 seconds of play, press **Seek ◀◀** to skip to the beginning of the current track.
- Press and hold **Seek ◀◀** or **Seek ►►** to scan backward or forward through a track.



- Press **Repeat** once for REPEAT TRACK mode. Press **Repeat** again for REPEAT DISC mode. Press **Repeat** again to turn off the repeat functions (REPEAT OFF).



- Press **Shuffle** once for SHUFFLE DISC mode. Press **Shuffle** again to turn off the shuffle mode (SHUFFLE OFF).

🎵 **Note:** For information on changing CD-related source settings, see “CD Settings menu” on page 51.

🎵 **Note:** While playing an MP3 CD, pressing **Info** displays artist and title information on the media center display panel.

## Listening to FM/AM radio



On the 3•2•1 remote, press **FM-AM**. If the system is off, the radio will turn on to the most recently selected station.

### Tuning to a station

Use the following controls to tune to a radio station.



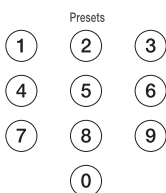
- Press **FM-AM** to switch between the FM and AM bands.



- Press **Tune ▲** to tune up the band. Press **Tune ▼** to tune down the band.



- Press **Seek ◀◀** to go to the previous station. Press **Seek ▶▶** to go to the next available station. Press and hold for rapid tuning. Release to stop at the next available station. To stop anytime, briefly press **Seek ◀◀** or **Seek ▶▶**. To begin seeking again without holding down the **Seek** button, briefly press **Seek ◀◀** or **Seek ▶▶** as soon as the first seek operation stops.



OR

- Press the number of a preset station on the remote.

**Note:** For information on changing FM/AM-related source settings, see “FM/AM Settings menu” on page 51.

### Storing stations as presets

Using your 3•2•1 remote control, you can store up to 20 AM and 20 FM station presets. This enables you to tune to a favorite station quickly.

1. Tune to the preferred station.
2. Press **Enter** on the remote to store the station at the next available preset number.

OR

Enter a number on the remote using the numeric buttons. For numbers 1-9, press the single number button and hold it. For numbers 10-20, press the first number followed immediately by pressing and holding the second number.

The newly stored preset number appears briefly on the media center display.

**Note:** Storing a station to a preset number replaces any station previously stored to that preset.

### Erasing a preset

1. Tune to the preset station.
2. Press and hold the **0** button on the remote until the media center display tells you that the preset is erased.

## Using the uMusic® intelligent playback system

Before you can play stored music and use the uMusic® intelligent playback system, you need to store some CD tracks in your media center. To experience the impact of the uMusic playback system, you should start by storing 10 discs.

♪ **Note:** Your system is designed to store tracks of regular CDs only. It will not store MP3 tracks or the contents of DVDs. If an inappropriate disc type is in the disc tray when the Store button is pressed, the media center displays an error message to indicate that storage is not possible.

### Storing CDs

1. To start, choose 10 of your favorite CDs.

Eject



2. Press **Eject** on the media center to open the disc tray.

3. Place an audio CD in the disc tray.

4. Press **Eject** again to close the tray.

Store

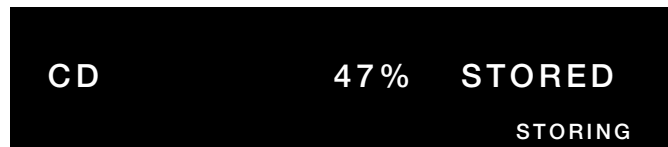


5. Press **Store** on the media center.

- Storing takes about 5 minutes per disc. While a CD is being stored, the media center display (Figure 24) shows you what percentage of the task is completed.
- To interrupt or stop storing at any time, press **Eject**. To resume storing the same disc, close the disc tray and press **Store** again.

**Figure 24**

Example of media center display while storing a CD



6. After AUDIO CD STORED appears on the media center display, open the disc tray, and remove the CD.
7. Repeat these steps for each CD.

### Planning time to store your music

- Allow about 5 minutes per CD to copy the tracks.
- Storing 10 discs will take about 1 hour, including the time it takes to insert and remove them.
- After storing a CD, your system needs to process the tracks for efficient storage. If after storing several CDs the media center displays BUSY PROCESSING CDS, you will need to wait and allow the system to complete its process. Turning your system off will allow it to process CDs faster.
- For 10 CDs your system will need about 6 hours of processing time with the system turned off.
- If your CD collection is extensive, you should plan several separate sessions.



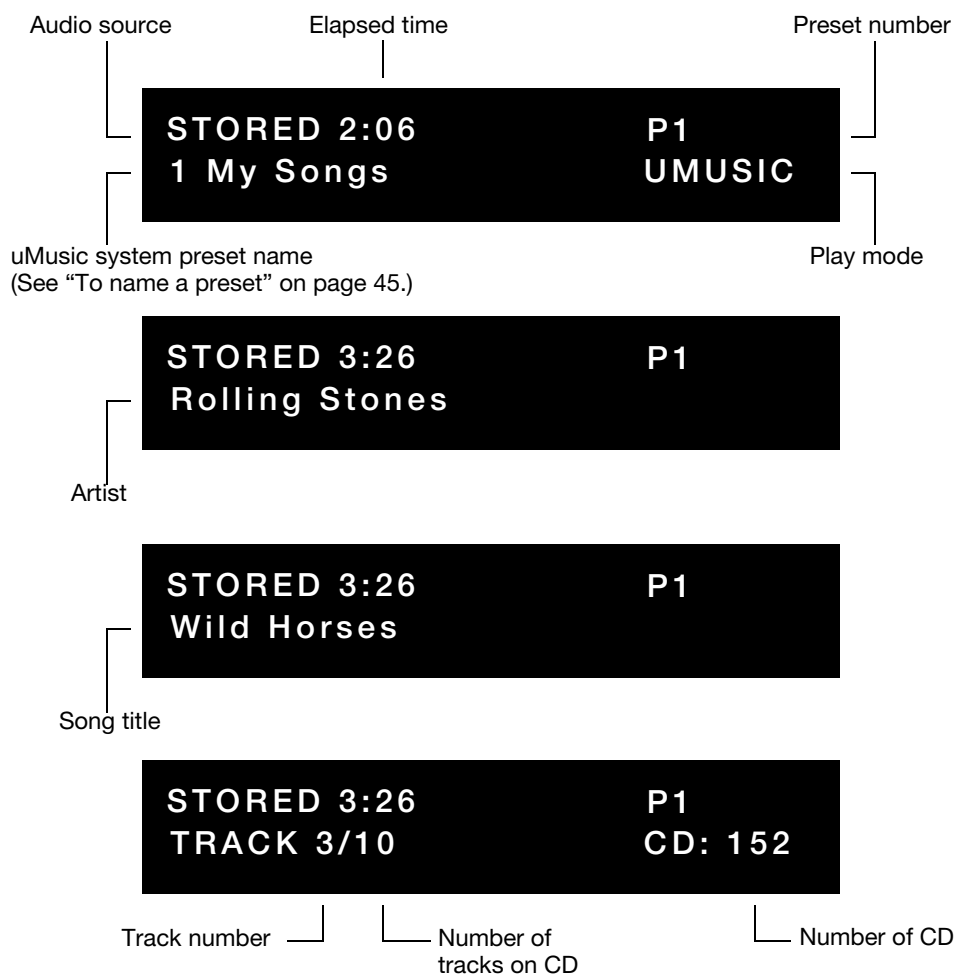
Stored

### Playing stored music

- Press **Stored** on your remote to select the stored music source and turn on the system, if it is off. The uMusic® system will begin to play the stored music under the last-selected preset and in the last play mode used. Your media center displays information (Figure 25) about the track that is playing.

**Figure 25**

Example media center display of track information



- If you want a different preset, press the corresponding preset number (1-9) on the remote.
- Press **Pause** to interrupt the current selection.
- Press **Pause** again, or press **Play** to resume playing a paused selection.



- Press **Stop** once to stop playing a selection. Pressing **Play** will continue the selection from where the track stopped.
- Press **Stop** twice. Pressing **Play** will start the selection from the beginning of the track.



- Press **Track ▲** to skip to another track.
- Press **Track ▼** to skip to a previous track.

🎵 **Note:** Pressing **Track ▲** or **Seek ►►** to skip a track registers a negative rating for that track. See "Rating your music" on page 43.



- Press **Seek ►►** once to skip to the next track.
- Within the first 2 seconds of play, press **Seek ◀◀** to skip to the previous track. After 2 seconds of play, press **Seek ◀◀** to skip to the beginning of the current track.
- Press and hold **Seek ◀◀** or **Seek ►►** to scan backward or forward through a track.



- Press **Info** to see information about the track that is playing on the media center and on your TV (Figure 26) if it is on.

**Figure 26**

Example of Info display



🎵 **Note:** For information on changing stored music-related source settings, see "Stored CD Settings menu" on page 51.

## Rating your music

When you first start playing your stored music, the uMusic® system doesn't know what you like to hear the most, so the system starts by playing tracks from your entire music library. As you spend time listening to your music and rating each track, the system learns what you like to hear.



While a track is playing, you can tell the system if you like or dislike it:

- Press the **- Rating** button to tell the system you dislike the current track. The current track will stop and the system will select the next track. Pressing the **- Rating** button makes this track, and tracks like it, less likely to be played in the current preset.
- Press the **+ Rating** button to tell the system you really like the current track. The current track will continue to play. Pressing the **+ Rating** button makes this track, and tracks like it, more likely to be played in the current preset.

A rating is also registered when you skip a track or listen to a track all the way through. However, the effect of pressing a **Rating** button is stronger than either of these two actions.

You can also rate your stored music from within the Music Library. See "Rating stored music in the library display" on page 48.

## Stored music play modes



- Press **uMusic** to return to the uMusic playback mode from the Encore, CD#, Playlist, or Whole CD play mode.



Encore

- Press **Encore** if the current track that is playing really captures your mood and you would like to hear other similar tracks from your stored music. After the other similar tracks are played, the uMusic playback system resumes.



CD #

- Press **CD#**, immediately followed by a CD number, to play one of your stored CDs. The CD number appears on the right side of the media center display while a CD is playing.



Playlist

- Press **Playlist** briefly to play the tracks that you have put into your playlist. For more information, see "Using the Playlist" on page 46.



Whole CD

- Press **Whole CD** to play all tracks, in order, of the CD that includes the track now playing. When the CD is finished playing, uMusic playback resumes.

## Repeat and shuffle functions

Repeat and Shuffle functions only apply to CD#, Playlist, and Whole CD modes.



- Press **Shuffle** to play tracks in a random order. SHUFFLE is displayed on the media center.
- Press **Shuffle** again to turn off the shuffle function.



- Press **Repeat** to repeat a track. REPEAT TRACK is displayed on the media center.
- Press **Repeat** again to repeat the whole CD or playlist. REPEAT DISC is displayed on the media center.
- Press **Repeat** again to turn off the repeat function.
- To repeat a CD and play its tracks in random order, press **Shuffle** and then press **Repeat**. SHUFFLE REPEAT DISC is displayed on the media center.



### Deleting stored tracks

If there is a track stored in the system that you will never want to play, you can permanently delete it from your stored music collection.

1. Press **System** on the remote control.
2. Select **Stored CDs** and press **Enter**.
3. Select **CD#** and press **Enter**.
4. Choose the number of the CD containing the track you want to delete and press **Enter**.
5. Select **Track** and press **Enter**.
6. Choose the name of the track you want to delete and press **Enter**.
7. Select **Track Action** and press **Enter**.
8. Choose **Delete Track** and press **Enter**.
9. After the confirmation, "Do you really want to permanently delete the track from the System," select **Yes** and press **Enter**.
10. Press **Exit** to leave the System menu.

### Using uMusic® system presets

The uMusic® system can manage up to nine sets of preferences using presets. The nine presets can be used to establish music preferences for different family members or for special purposes or occasions. If you wish, you can enter a name for each preset to help you remember how it is used.

#### To select a uMusic preset

1. Press **Stored**.
2. Press **1** to **9** on the remote for the preset you want. A **P** followed by the preset number is displayed on the media center to verify your choice.

**Figure 27**

Example music center display showing preset number



**Note:** When you play the uMusic system for the first time, it automatically selects Preset 1.

3. The uMusic playback system starts to play music according to the likes and dislikes registered, if any, for this preset. You can continue to rate the music being played using the **+** and **-** Rating buttons.

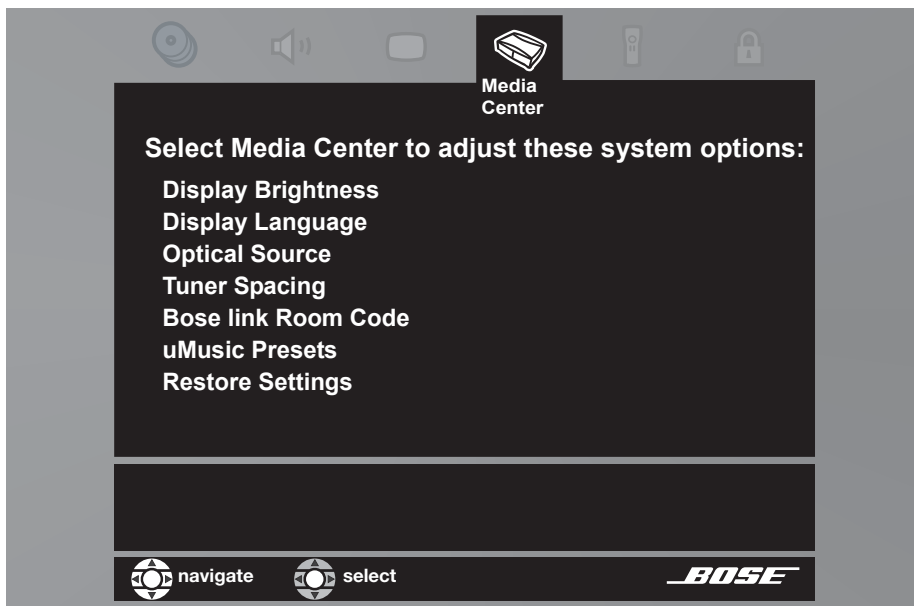


### To name a preset

1. Press **System**.
2. Select **Media Center** options (Figure 28).

**Figure 28**

System menu – media center options



3. Select **uMusic® Preset** and press **Enter**.
4. Choose a preset and press **Enter**.
5. Select **uMusic Preset Action** and press **Enter**.
6. Select **Edit Name** and press **Enter**.
7. Using the edit screen, enter a name for the preset. See “Using the Edit Screen” on page 57 for instructions on using the edit screen.
8. Select **Done** at the top right corner of the screen and press **Enter**.
9. Press **Exit** to leave the System menu.





## Using the Playlist

Using the Playlist feature, you can create a playlist of songs for a specific purpose, such as a birthday party or holiday gathering. The Playlist can contain as many tracks as you have stored in your media center.

### To add the currently playing song to the playlist

Press and hold **Playlist** until ADDED TO PLAYLIST is displayed on the media center.

### To listen to the Playlist

Press **Playlist** briefly. The tracks in the playlist play in order. Press the **uMusic**® button to leave the playlist and return to the uMusic playback mode.

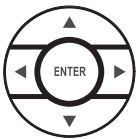
To repeat a track or play the tracks in random order, see “Repeat and shuffle functions” on page 43.

### To remove a track from the Playlist

While listening to the track in Playlist mode, press and hold **Playlist** until REMOVED is displayed on the media center. The track is removed from the playlist but not from the system.

### To add songs to the Playlist by track, album, artist, or genre

1. Press **Library**.
2. Use the navigation buttons to browse through your stored music collection. Refer to “Finding stored music” on page 47.
3. Select the track, album, artist, or genre that you want to add.
4. Press and hold **Playlist** until TRACK>>PLAYLIST or ALBUM>>PLAYLIST is displayed on the media center. The Music Library screen on your TV also indicates that a track, or one or more albums, have been added to the Playlist.



### To remove all tracks from the Playlist

Before building a new playlist, you may find it easier to clear the playlist of all its songs.

1. Press **System**.
2. Select **Media Center** options. Press **Enter**.
3. Select **uMusic Preset Action**. Press **Enter**.
4. Select **Clear Playlist**. Press **Enter**.
5. Press **Exit** to leave the System menu.



## Searching through your music library

Using the Library display, you can search through your music collection by genre, artist, album, or track.

### Finding stored music

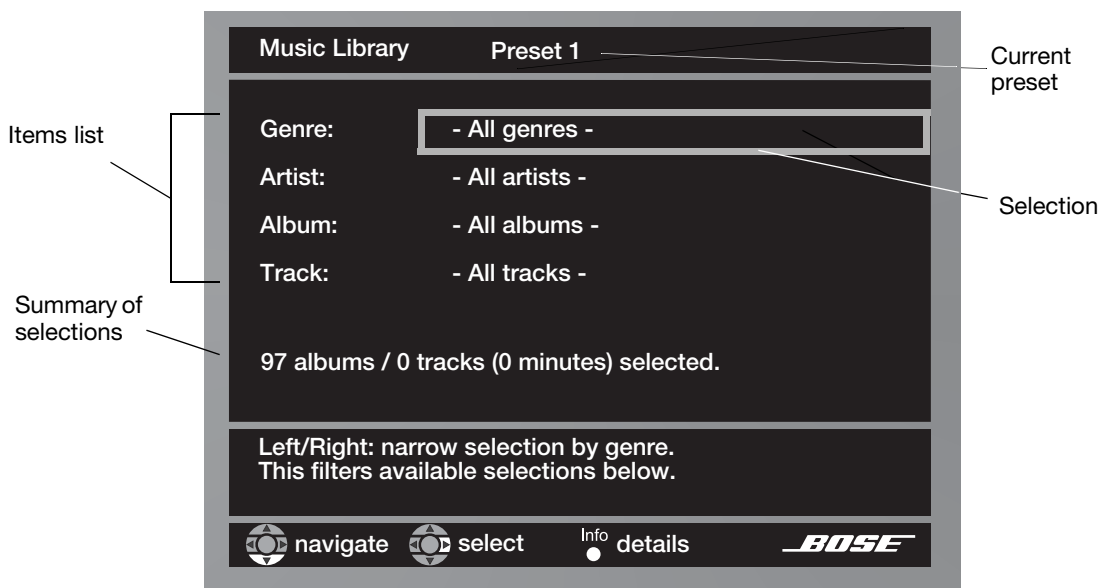
1. Press **Library**. The Music Library display (Figure 29) appears on your TV. Information also appears on the media center display (Figure 30).



Library

**Figure 29**

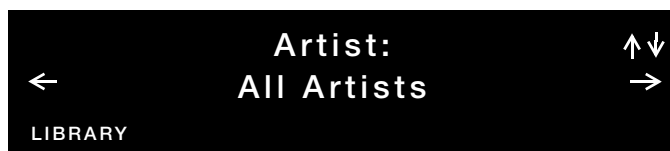
On-screen Music Library display



2. Use the navigation buttons on the remote to search for music by genre, artist, album, or track. Use the up/down arrows to select an item in the list. Use the left/right arrows to change the selection.
3. When you select a track or album you want to hear, press **Enter** to play it. When it is done, the uMusic® playback system will again start to select songs for you.
4. Press **Exit** to leave the Music Library.

**Figure 30**

Example of Library information on the media center display



**Rating stored music in the library display**

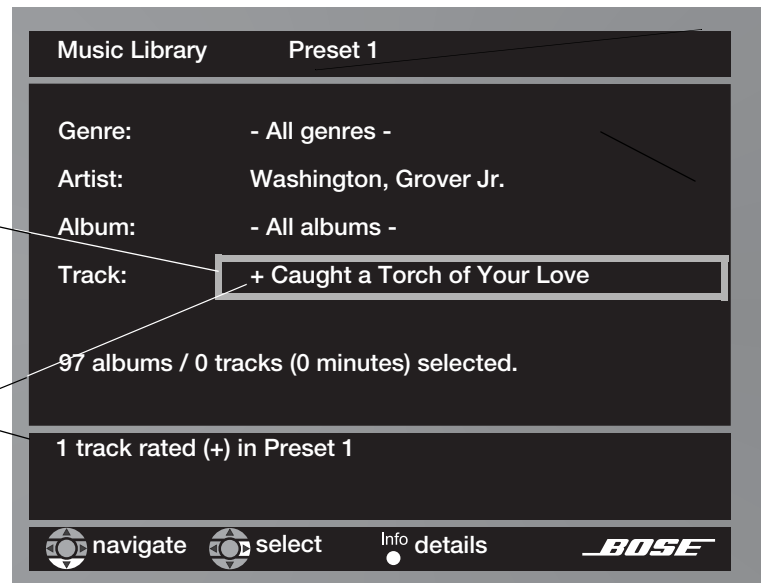
You can register a rating for any stored music found in the library by genre, artist, album, or track. First find the item in the library display. While the item is selected, press the **- Rating** or **+ Rating** button on your remote. The display confirms your rating (Figure 31).

**Figure 31**

Example of rating indicator in the Music Library display

Selection you are rating

Music rating confirmation  
(+ or - indicates how you rated the selection)

**Registering your system for music information updates**

When you store CDs, your system draws information from a built-in catalog of music information. This catalog includes 30 different characteristics about each CD, such as style, tone, related artists, key influences, and musicians. This is the information that makes the uMusic® intelligent playback system work.

Periodically, Bose issues a system update disc to make sure system owners have the most up-to-date music catalog. To receive future updates, be sure to register your system by mailing your completed product registration card to Bose. If indicated on your card, you may be able to register using the Internet.



## Using the settings menus

While watching a video or listening to music on your system, you can make quick adjustments that will increase your enjoyment of the program. For that purpose, each source you use with this system has its own Settings menu with features appropriate to that source.

### To view the settings menus

You can see the Settings menu for each source on your TV screen (Figure 32) and on the display panel of your media center (Figure 33).

1. Turn on your TV and select the correct TV input to view your 3•2•1 GSX system.
2. Press a source button on your 3•2•1 remote control.
3. Press **Settings** to display the Settings menu for the selected source.

If the list of menu items is too long for the screen, a small down or up arrow indicates that you need to scroll down or up to see other items.

4. Press **Exit** to leave the Settings menu.



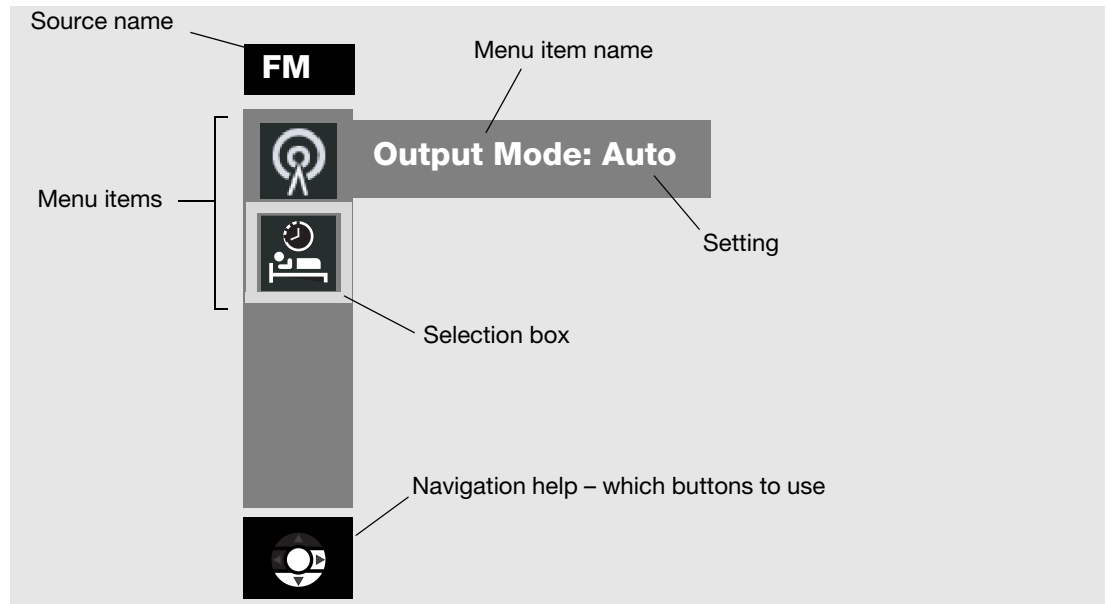
Settings



Exit

**Figure 32**

Sample Settings menu on your TV screen

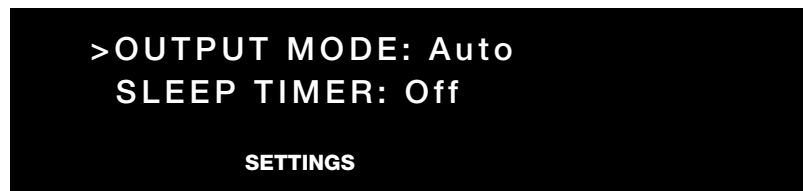


**Note:** Any changes made in the settings menu on your TV screen will also appear in the media center display panel.

On the media center display panel, menu items will scroll in and out of view as you press the up (▲) and down (▼) arrow buttons on the remote.

**Figure 33**

Sample Settings menu on the media center display



### To make changes in the settings menus

Whether you use your TV screen or the media center display to change settings, the same instructions apply.

You can use the actions on page 49 to change back to the original (default) settings, too. Do that if you do not like the effect of a change you have made, or accidentally made a change you did not intend. The default settings for each source are shown in the menu tables on the following pages.

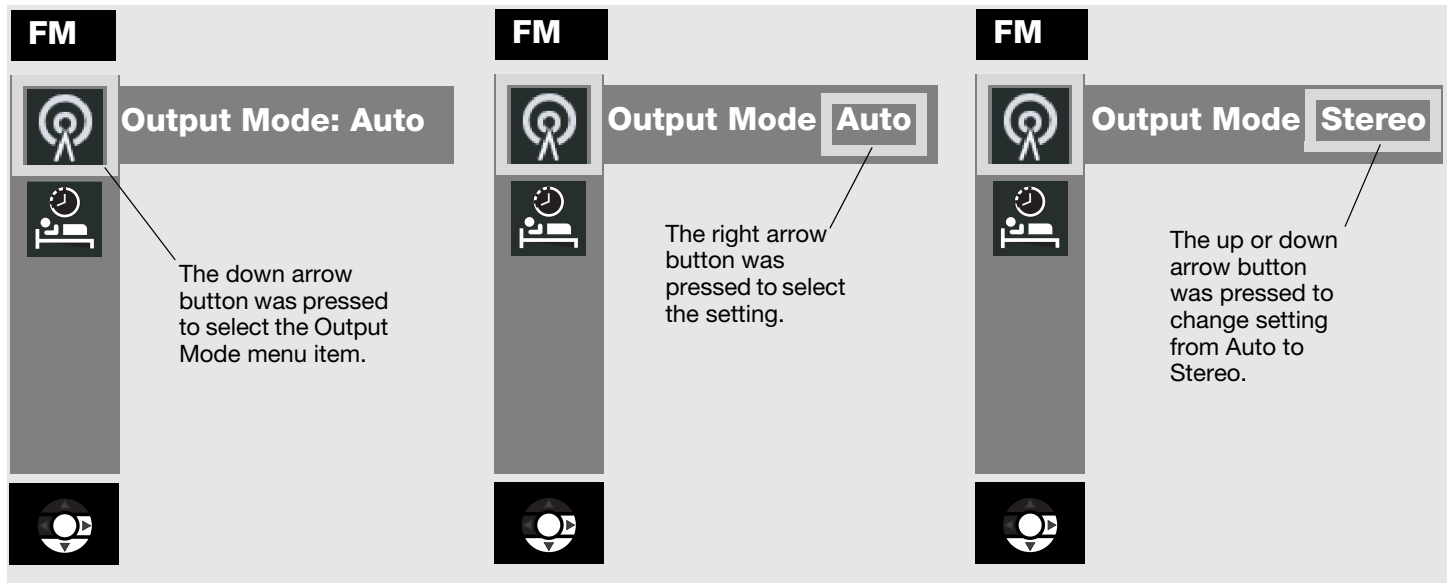
1. Turn on your TV and select the correct TV input to view your 3•2•1 GSX system.
2. Press a source button on your 3•2•1 remote control.
3. Press **Settings** to display the Settings menu for the selected source.
4. Using the down (▼) and up (▲) arrow buttons, select the menu item you want to change.
5. Press the right arrow (▶) button to select the menu item setting.
6. Press the up (▲) or down (▼) arrow button to change the setting.
7. Press **Enter** or the left arrow (◀) button to save the setting.
8. Press **Exit** to leave the Settings menu.



The progression in Figure 34 shows the output mode for the FM tuner being changed from Auto to Stereo.

**Figure 34**




Changing the FM output mode setting



**Note:** You can restore all default settings by choosing **Restore Settings** in the Systems menu, under **Media Center** options. This reverts all source settings back to the factory default settings. It also changes the **Audio Processing** setting back to **Automatic** (found in the Systems menu under Audio options).




## Stored CD Settings menu

To see the Stored CD Settings menu, press **Stored** on the remote. Then press **Settings**. Press **Exit** to remove the menu from the screen.

<i>Item</i>	<i>Name</i>	<i>Settings</i>	<i>Default</i>	<i>Description</i>
	uMusic® Preset	1 through 9, or names	1 (or last selected)	Indicates the current preset and allows you to change it.
	Play Mode (indicator)	Library, Encore, CD#, Playlist, Whole CD, Shuffle, Repeat	uMusic	Indicates the current uMusic play mode. Not adjustable in the Settings menu.
	Sleep Timer	10-90 minutes	Off	Sets system to turn off when the selected time elapses.



## FM/AM Settings menu

To see the FM/AM Settings menu, press **FM•AM** on the remote. Then press **Settings**. Press **Exit** to remove the menu from the screen.

<i>Item</i>	<i>Name</i>	<i>Settings</i>	<i>Default</i>	<i>Description</i>
	Output Mode (FM only)	Auto, Stereo, Mono	Auto	Allows you to listen to stereo broadcasts in either stereo or mono output.
	RDS Info (FM only, and only on some systems)	Off, On	Off	Displays station and program information (as available from Radio Data System).
	Sleep Timer	Off, 10-90 minutes	Off	Turns the system off after the set time expires. Choose Off to deactivate the timer.












## CD Settings menu

To see the CD Settings menu, press **CD•DVD** on the remote while playing an audio CD. Then press **Settings**. Press **Exit** to remove the menu from the screen.

<i>Item</i>	<i>Name</i>	<i>Settings</i>	<i>Default</i>	<i>Description</i>
	Track	__ of __		Allows you to select a track on the current disc.
	Sleep Timer	Off, 10-90 minutes	Off	Turns the system off after the set time expires. Choose Off to deactivate the timer.

## DVD Settings menu

To see the DVD Settings menu, press **CD•DVD** on the remote while playing a DVD video disc. Then press **Settings**. Press **Exit** to remove the menu from the screen.






Item	Name	Settings	Default	Description
	Movie EQ*	On, Off	On	Optimizes the tonal balance for movies.
	Range Compression*	On, Off	On	Adjusts volume to maintain dialogue intelligibility. Keeps some sounds from overwhelming others.
	Mono Decoding*	On, Off	On	Engages Videostage® 5 mono decoding circuitry to convert mono sound (one-channel audio) into simulated surround sound.
	Time	_: _	0:00	Displays the elapsed time of the current DVD. Also, allows you to move to a new location in the movie by entering a new time.
	Title	__ of __		Selects a DVD title from the current disc, according to the number set. Some DVDs do not allow direct access to titles.
	Chapter	_____		Selects a DVD chapter from the current DVD movie, according to the number entered. Some DVDs do not allow direct access to chapters.
	Audio Track	Dependent on disc		Allows you to choose one of the available audio tracks on the current disc.
	Subtitle language	Dependent on disc		Allows you to choose one of the available subtitle languages (only if included on the disc).
	Camera Angle	1 of ____		Allows you to select one of the available camera angles (only if included on the disc).
	A-B Repeat	A, B		Repeats a segment of the DVD after the start and end points are defined. To begin: <ol style="list-style-type: none"> <li>1. Move backward or forward to the point in the DVD where you want the segment to start.</li> <li>2. Press <b>Enter</b>.</li> <li>3. Move to the point where you want it to end.</li> <li>4. Press <b>Enter</b>.</li> </ol> Repeats until you press the <b>Settings</b> button.
	Sleep Timer	Off, 10-90 minutes	Off	Turns the system off after the set time expires. Choose Off to deactivate the timer.

\*Available only when Audio Processing is set to User Adjustable. See “Audio options” on page 59 for more information.

## TV, CBL•SAT, and AUX Settings menu

The settings below affect programs on the TV, even when the source of the program is VCR, CBL/SAT, or AUX. There are no separate setting menus for these sources.

Movie EQ, Range Compression and Mono Decoding appear in the menu only if **Audio Processing** is set to **User Adjustable**. Audio Processing can be found in the System menu under Audio options.

<i>Item</i>	<i>Name</i>	<i>Settings</i>	<i>Default</i>	<i>Description</i>
	Movie EQ*	On, Off	On	Optimizes the tonal balance for movies.
	Range Compression*	On, Off	On	Adjusts volume to maintain dialogue intelligibility. Keeps some sounds from overwhelming others.
	Mono Decoding*	On, Off	On	Engages Videostage® 5 mono decoding circuitry to convert mono sound (one-channel audio) into simulated surround sound.
	Dolby Digital 1+1**	1, 2, Both	1	Plays audio content of selected soundtrack(s). The content of the second sound-track may be a second language, for example.
	Sleep Timer	Off, 10-90 minutes	Off	Turns the system off after the set time expires. Choose Off to deactivate the timer.

\*Available only when Audio Processing is set to User Adjustable. See “Audio options” on page 59 for more information.

\*\*Available only when a Dolby Digital 1+1 signal is detected.

# CHANGING SYSTEM OPTIONS

## Using the System menu

Changes to system options are typically made only once. If your system operates as you want it to, there may be no need for any changes. In some cases, however, changes are required to make the system fully compatible with the installation options you have chosen.

### To change System menu options

Unlike the source settings menus, the System menu only appears on your TV screen.

1. Turn on your TV and select the correct TV input to view your 3•2•1 GSX system.
2. Press the **System** button on your 3•2•1 remote control. The System menu (Figure 35) appears on your TV screen.



**Note:** Entering the System menu causes any DVD or VCD that is playing to pause.

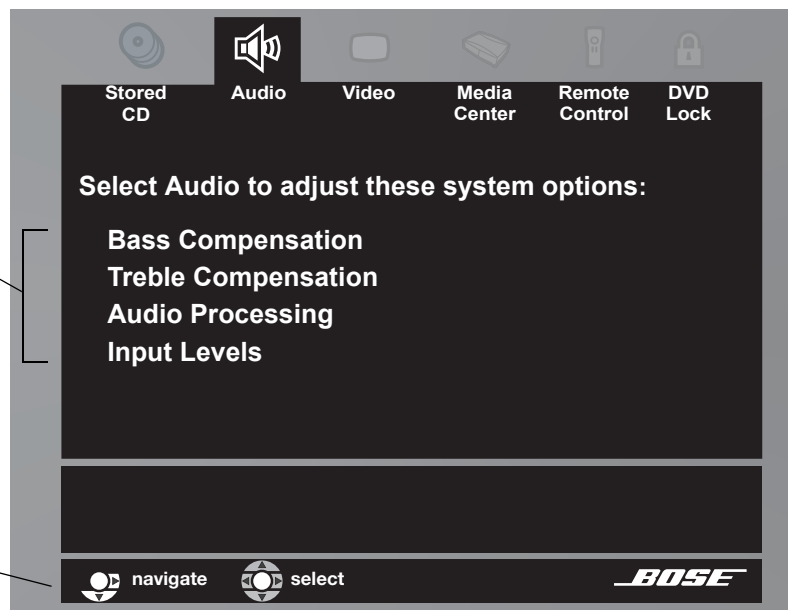
**Figure 35**

System menu example

Categories of options

List of system options for the selected category

Navigation help – which remote control buttons to use



3. Using the right (▶) and left (◀) arrow buttons, highlight one of the option categories (Stored CD, Audio, Video, Media Center, Remote Control, or DVD Lock).
4. Press **Enter** or the down (▼) arrow to select the option category.
5. Using the down (▼) and up (▲) arrow buttons, select the system option to change.
6. Press the right arrow (▶) button to see the system option settings.
7. Press the up (▲) or down (▼) arrow button to change the setting.
8. Press **Enter** or the left arrow (◀) button to save the setting.
9. Press **Exit** to leave the System menu.



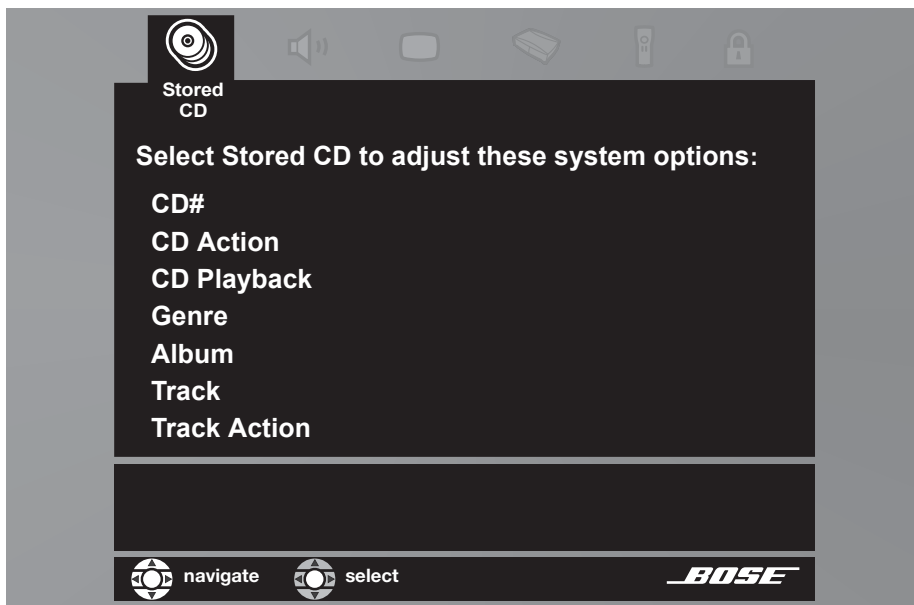
## Stored CD options

Press **System** on the remote control. A preview of Stored CD features is displayed. Press the down arrow button to move into an active display of submenus.

🎵 **Note:** This choice is available from the System menu only when music from at least one CD has been stored in the system. For information on storing your music, refer to “Storing CDs” on page 40.

**Figure 36**

Stored CD preview



<b>Stored CD Options</b>	<b>Settings</b>	<b>Description</b>
<b>CD#</b> (Indicator only)	1 [default] or selected CD number	Shows the settings for the CD with that number in the system. Changes when the CD selection changes; cannot be edited.
<b>CD Action</b>	Reload CD information [default] Delete CD	Replaces user edits with database information. Requires confirmation. Then removes all information related to this CD.
<b>CD Playback</b>	Automatic [default]  Link all tracks Don't link all tracks	Plays linked tracks of a CD in order, such as movements of a symphony. Tracks play together and in order only. Tracks do not always play in order and together.

<b>Stored CD Options</b>	<b>Settings</b>	<b>Description</b>
<b>Genre</b>	Rock/Pop, Classical, Jazz, Electronica, World, Latin, Country, Hip Hop/Rap, Vocal Music, Gospel/Religious, Blues, Soundtrack, Folk/Bluegrass, New Age, Reggae, Easy Listening, Children, Spoken/Comedy, Holiday, Other, Unlabeled	Identifies the type of music on the CD. Reclassifies the CD as the selected music genre.
<b>Album</b>	<i>Specific to the CD</i>	Displays an editing screen** on your TV, which allows you to change album information.
<b>Artist*</b>	<i>Specific to the CD</i>	Displays an editing screen** on your TV, which allows you to change artist information.
<b>File Artist As*</b>	<i>Specific to the CD</i>	Displays an editing screen** on your TV, which allows you to change the way an artist's name is listed.
<b>Track</b>	<i>Specific to the CD</i>	Allows you to select a track on the CD.
<b>Track Action</b>	Edit [default] Delete Track	Selecting <b>Edit</b> displays an editing screen on your TV. Displays a message asking you to confirm your selection. Upon confirmation, the current track and all track information is deleted.

\*Does not appear in every menu.

\*\*See "Using the Edit Screen" on page 57.

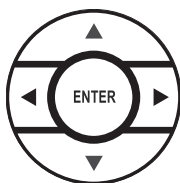
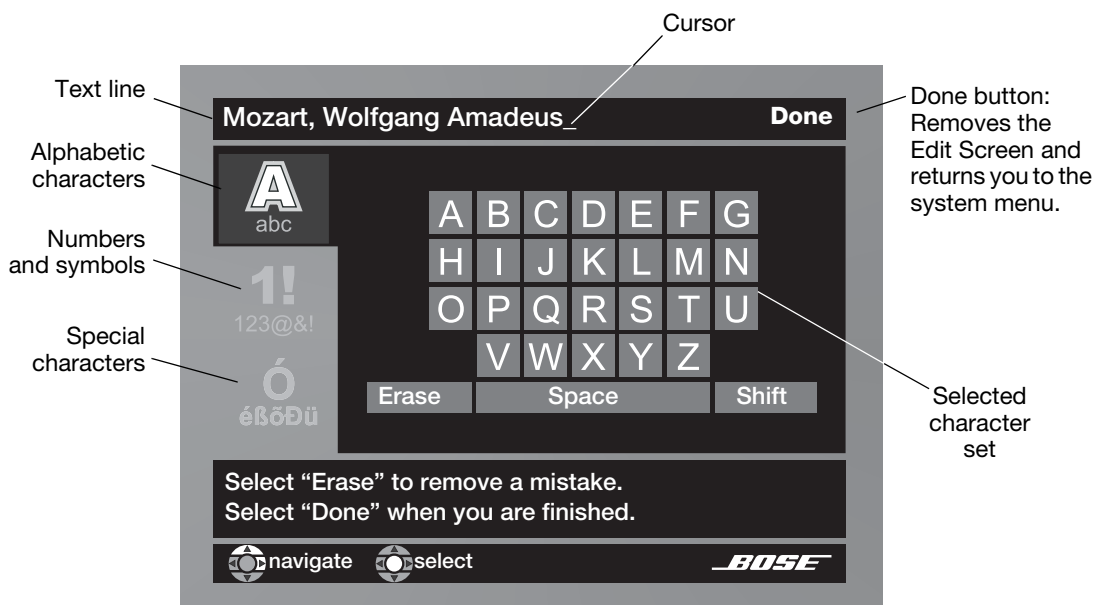


## Using the Edit Screen

The Edit Screen (Figure 37) enables you to change or replace music information provided by the system. It appears when you select a menu item that can be edited from the Stored CD options (page 55) or the Library menu (page 47).

**Figure 37**

*Edit Screen example*



When you select a menu item that can be edited, the text appears in the text line of the Edit Screen. You can add to it or enter new text by selecting characters from the alphabetic, numeric, or special character sets. Use the remote control up, down, left and right arrows to select a character and press **Enter** to write it in the text line. When you are finished editing, select the **Done** button and press **Enter** to remove the Edit Screen.

### **To remove existing characters from the text line:**

Characters are removed from right to left starting at the cursor.

1. Select **Erase**.
2. Press **Enter** to remove the last character in the text line.
3. Press **Enter** as often as needed to remove additional characters in that line.

### **To enter new text or add to existing text:**

New characters are added starting at the cursor.

1. Move to a character and press **Enter**.
2. Move to the next character and press **Enter**.

**To enter a space between words:**

Spaces are entered to the right of the last character in the text line.

1. Select **Space** and press **Enter**.
2. Select the first character of your next word and press **Enter**.

**To enter a capital letter:**

The first letter of a new line of text is automatically capitalized. Lower case characters are entered after that unless you use the Shift function.

1. Select **Shift** and press **Enter**. Notice that the alphabetic character set is now all capital letters.
2. Select the next character and press **Enter**.
3. Select **Shift** and press **Enter** again if you want the next entered character to be lower case.

**To enter a number or symbol:**

1. Select the number and symbols character set.
2. Select the number or symbol you want and press **Enter**.

**To enter a non-English special character:**

1. Select the special characters set.
2. Select the special character(s) you want and press **Enter**.

**To save the text:**

- Select **Done** and press **Enter**.

**To undo all edits you've made:**

To undo changes you made to CD information, you can replace your changes with the original music information that came stored in your system.

1. Press **System** on the remote.
2. Select **CD Action**.
3. Select **Reload CD information** and press **Enter**.
4. Press **Exit**.

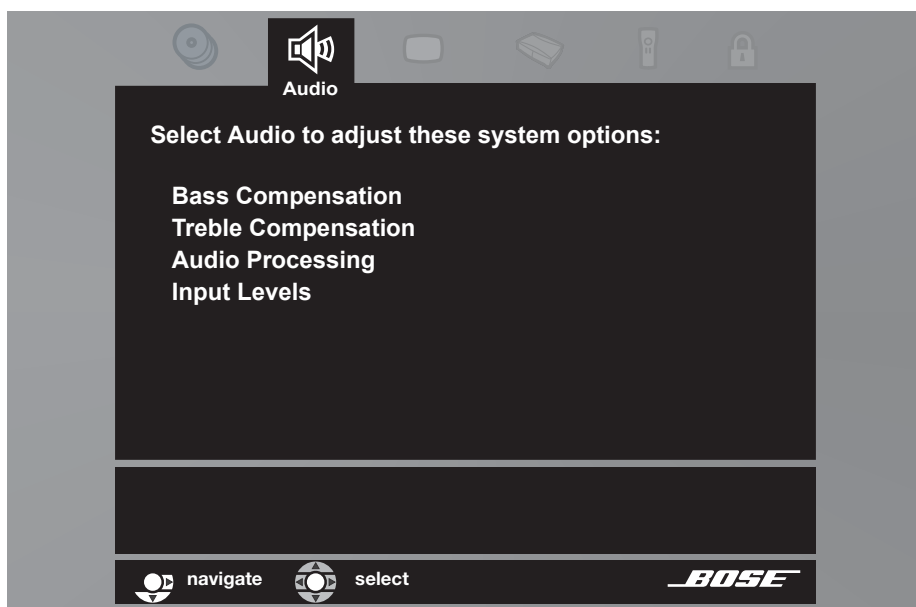
## Audio options

The audio options affect the way the system sounds in your home.

🎵 **Note:** Listening to an audio source while you change audio options can be helpful. Some changes will be immediately noticeable and therefore useful in fine tuning your selections.

**Figure 38**

Audio system options



Audio Options	Settings	Description
<b>Bass Compensation</b>	0 [default] -14 to +14	Normal low-frequency reproduction. Decreased (-) or increased (+) low-frequency reproduction.
<b>Treble Compensation</b>	0 [default] -14 to +14	Normal high-frequency reproduction. Decreased (-) or increased (+) high-frequency reproduction.
<b>Audio Processing</b>	Automatic [default] User Adjustable	Standard Bose® processing applied. Processing options (Movie EQ, Range Compression, Mono Decoding) available in Source Settings menus.
<b>Input Levels:</b> <b>TV Analog Input Level</b> <b>TV Digital Input Level</b> <b>CBL/SAT Analog Input Level</b> <b>CBL/SAT Digital Input Level</b> <b>AUX Analog Input Level</b> <b>AUX Digital Input Level</b>	Normal [default] -6, -3, +3, +6	Standard signal level (loudness). Decreases or increases signal level (adjustable to match the levels of other audio devices).  🎵 <b>Note:</b> You may want to adjust the input levels of external audio devices so they match the system's internal FM and CD levels.

## Video options

The video options affect the way the picture looks on your TV.

**Figure 39**

Video system options



<b>Video Options</b>	<b>Settings</b>	<b>Description</b>
<b>TV Aspect Ratio</b>	Normal [default] Widescreen	4:3 ratio screen display. 16:9 ratio widescreen display.
<b>Widescreen DVDs</b>	Unmodified [default] Modified	DVD video does not reformat automatically. DVD reformats, as needed, to fit a 4:3 TV screen.
<b>Video Connector</b>	Composite + S-Video [default] Component	A <i>read-only</i> line that identifies the type of video connection made on the back panel of the media center.
<b>Video Black Level</b>	Normal [default] Extended	Screen black level generally appropriate for TVs. Increases screen black level, appropriate for certain TVs.
<b>TV Video Format</b>	NTSC (US) [default] PAL (EUROPE) (MULTISTANDARD)	Correct for NTSC (U.S. standard) monitors. Correct for PAL (European standard) monitors. Only for a TV that supports multiple formats (NTSC and PAL).
<b>Progressive Scan*</b>	Off [default] On	Screen image repaints in standard style. Screen image repaints in advanced style (if available on the TV).

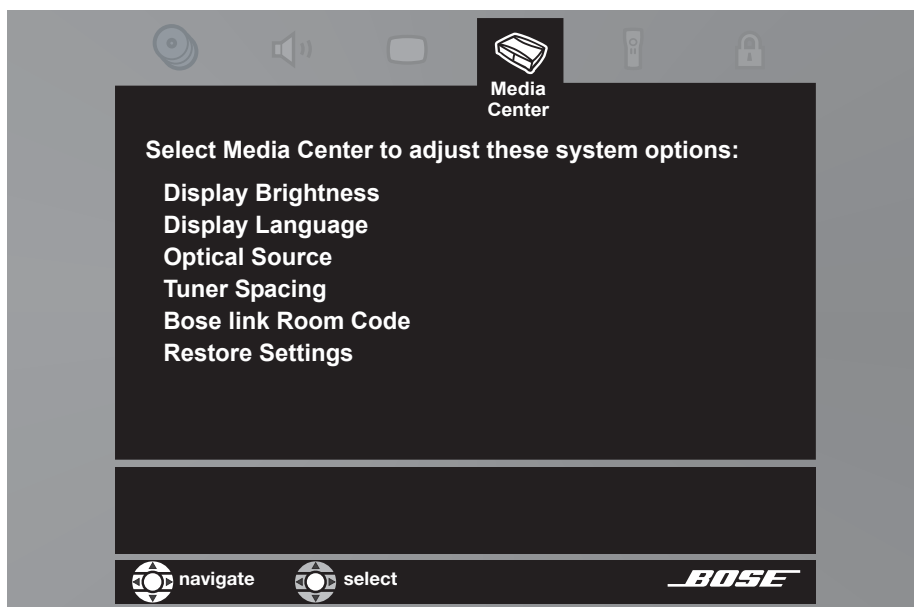
\*Appears only when your TV is connected to the media center using a component video connection.

## Media center options

The media center options affect the general operation of the system.

**Figure 40**

Media Center system options



<b>Media Center Options</b>	<b>Settings</b>	<b>Description</b>
<b>Display Brightness</b>	4 [default] 1 (darkest) to 4 (brightest)	Media center display lights with a mid-range brightness. Darkens or lightens the media center display.
<b>Display Language</b>	English [default] Dansk, Deutsch, Espanol, Francais, Italiano, Nederlands, Svenska	On-screen display menus appear in the selected language.
<b>Optical Source</b>	None [default] TV, CBL/SAT, AUX	No digital signal received via optical cable. Digital signal received via optical cable for selected source.
<b>Tuner Spacing</b>	US [default] European	Channel spacing for AM/FM radio stations set to selected region standard.
<b>uMusic® Preset</b>	1 [default] 2, 3, 4, 5, 6, 7, 8, 9	The selected preset to which a uMusic Preset Action is applied.
<b>uMusic Preset Action</b>	Edit name Clear playlist Clear ratings	Opens an editing screen for naming or renaming the selected uMusic Preset. Removes all tracks from the system playlist. Removes all stored ratings associated with the selected uMusic Preset.
<b>Bose® link Room Code*</b>	B [default] C, D, E, F, G, H, I, J, K, L, M, N, or O	Assigns a room code to your 3•2•1 GSX system when it is connected to a Bose® link source.
<b>Restore Settings</b>	No Yes	Maintains current system settings. Reverts system settings back to factory defaults.

\*Appears only when a Bose® link source is connected.

## Remote control options

The Remote Control options help you set up your remote to control other audio devices that are connected to your system.

**Figure 41**

Remote Control system options



<b>Remote Control Options</b>	<b>Settings</b>	<b>Description</b>
<b>TV Brand</b>	Brand name	Provides a list of TV brands for the 3•2•1 remote control to operate.
<b>TV Device Code</b>	Code number	Provides a list of available device codes for the selected TV brand.
<b>CBL•SAT Device</b>	Cable, Cable/DVR, Satellite, Satellite/DVR, HDTV tuner	Identifies which of two devices is connected to the <b>CBL-SAT</b> input.
<b>CBL•SAT Brand</b>	Brand name	Provides a list of cable/satellite box brands for the 3•2•1 remote control to operate.
<b>CBL•SAT Device Code</b>	Code number	Provides a list of available device codes for the selected cable/satellite box brand.
<b>AUX Device</b>	TV/DVD, DVD/DVR, DVD/DVD recorder, Satellite/DVR, Cable/DVR, DVR, VCR	Identifies which of two devices is connected to the <b>AUX</b> input.
<b>AUX Brand</b>	Brand name	Provides a list of VCR/PVR brands for the 3•2•1 remote control to operate.
<b>AUX Device Code</b>	Code number	Provides a list of available device codes for the selected VCR/PVR brand.

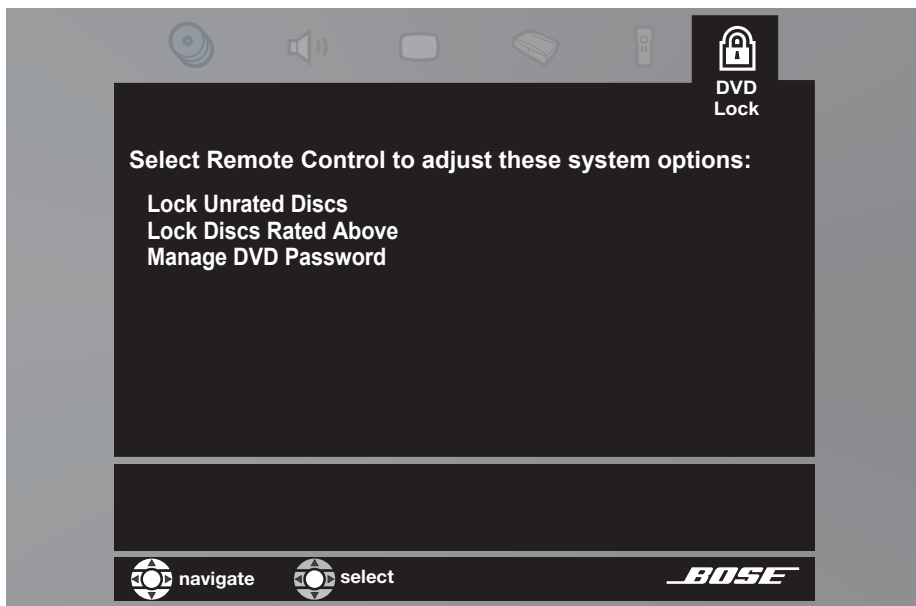
- ♪ **Note:** To find the brand and device codes for each component that can be connected to, and controlled by, the 3•2•1 GSX system, see "Device Codes" on page A-1.
- ♪ **Note:** After programming your remote to control external audio/video devices from the System menu, press the System button once to continue navigating the System menu.

## DVD Lock options

The DVD Lock options allow you to restrict viewing of DVD videos with certain ratings. To activate this feature, you need to set a level of restriction and establish a password in the DVD Lock section of the System menu.

**Figure 42**

DVD Lock system options



DVD Lock Options	Settings	Description
Lock Unrated Discs	Off On	No restriction applies to unrated DVD movies. Restricts viewing access to unrated titles when password is set.
Lock Discs Rated Above	1 to 8	Helps prevent viewing discs above the selected number when a password is created.
Manage DVD Password	----	Establishes a new four-number code to restrict access to movies with certain ratings.

### Setting a password and restriction level

Your password will help prevent unauthorized viewing of DVD videos that have a higher rating than your restriction level. There are eight levels to choose from, matched to movie ratings set by the Motion Picture Association of America (MPAA). See “Motion Picture Association of America (MPAA) rating system” on page 64.

1. Turn on your TV and select the correct TV input to view your 3•2•1 GSX system.
2. Press the **System** button on your 3•2•1 remote control.
3. Using the right (▶) and left (◀) arrow buttons, highlight the DVD Lock option.
4. Press **Enter** or the down (▼) arrow button.



**Note:** If you are using the DVD Lock option for the first time, enter a four-digit password. Then enter it again to confirm.



5. Enter your four-digit password.
6. Using the down (▼) button, scroll down to Lock Discs Rated Above.
7. Press the right arrow (▶) button to see the available settings.
8. Press the up (▲) or down (▼) arrow button to find the rating you want.
9. Press **Enter** or the left arrow (◀) button to save the setting.
10. Press **Exit** to dismiss the Settings menu.

***Motion Picture Association of America (MPAA) rating system***

<b><i>Parental Control Setting</i></b>	<b><i>MPAA Rating</i></b>	<b><i>Audience Restriction</i></b>
8		None
7	NC-17	Adult audiences
6	R	Mature audiences
5		Mature teenage audiences
4	PG-13	Teenage audiences
3	PG	Mature young audiences
2		Most audiences
1	G	General

**Example:** Choosing a Parental Control Setting of 4 restricts access to videos rated above PG-13. Videos with ratings above that may be viewed only after entering the password. Your password also helps prevent others from changing the restriction level setting without permission.



## Cleaning

### **Cleaning the media center**

- Use only a soft, dry cloth to clean the outside surfaces of the media center.
- 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.

### **Cleaning the speakers**

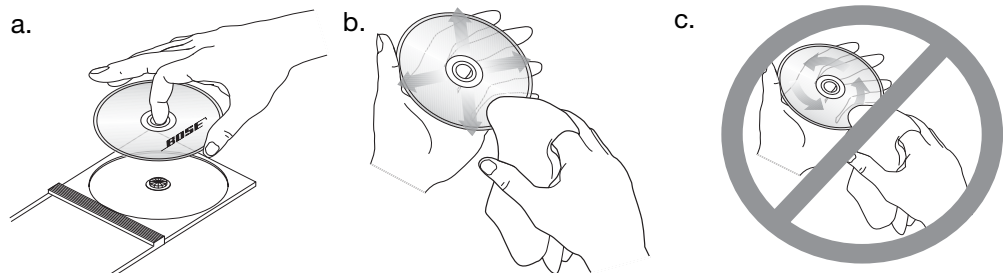
- Clean the surface of your speakers with a soft, damp cloth. You can use an ammonia-free window cleaner on a soft cloth to maintain the finish.
- Do not use any sprays near the speakers. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not allow liquids to spill into any openings.

### **Cleaning discs**

- Handle discs by their edges to prevent fingerprints and scratches (Figure 43a).
- To remove stains or fingerprints from the surface of a disc, use a soft and dry lint-free cloth. Wipe in straight movements from the center of the disc to the outside (Figure 43b). Do not use any chemical products; they can damage the disc.
- Do not use a circular motion to clean (Figure 43c).
- Do not write on or attach labels to the surface of a disc.
- To minimize exposure to dust and dirt, return discs to their cases after use. Store each disc in its case, away from direct sunlight, high temperatures, and humidity.

**Figure 43**

Disc care



## Replacing the remote control batteries

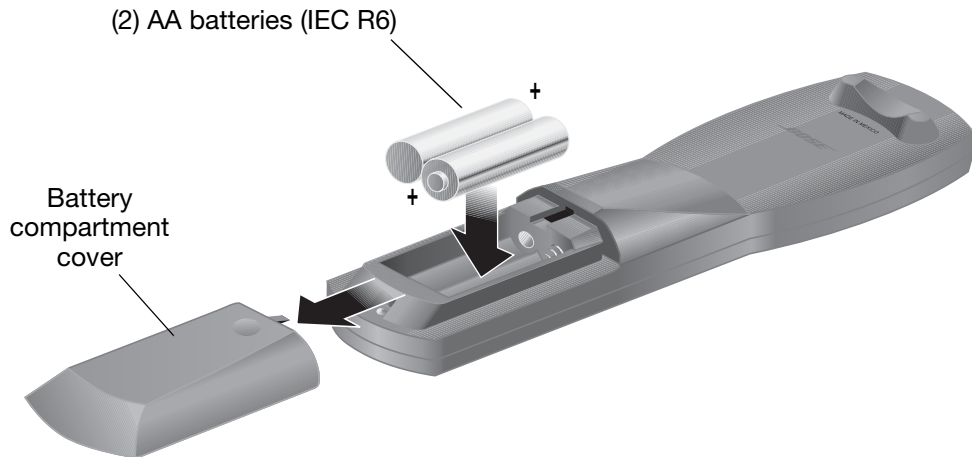


**CAUTION:** Please dispose of used batteries properly, following any local regulations. Do not incinerate.

- Slide open the battery compartment (Figure 44).
- Notice the polarity markings (+ and -) inside the compartment and install the batteries accordingly. Be sure to replace both batteries.
- Slide the battery compartment cover back into place.

**Figure 44**

Putting in the batteries



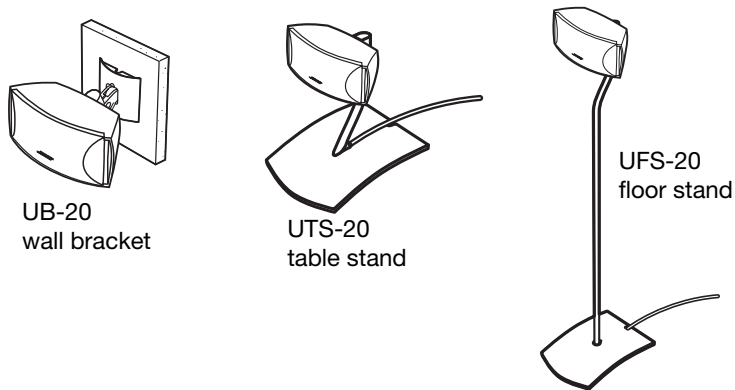
## Accessories

The Bose® 3•2•1 GSX system shelf speakers are compatible with Bose mounting accessories, including the UB-20 wall brackets, UFS-20 floor stands, and UTS-20 table stands (Figure 45). Bose also offers cable adapters for use in running speaker cable through walls.

For further information or to order the mounting brackets, stands, or cable adapters, contact your Bose dealer or Bose Corporation directly. Refer to the address sheet included in the shipping carton.

**Figure 45**

Speaker accessories



## Troubleshooting table

<i>Problem</i>	<i>What to do</i>
System doesn't do anything	<ul style="list-style-type: none"> <li>• Make sure the unit is turned on. Try pressing the remote <b>On-Off</b> button and the media center <b>On-Off</b> button.</li> <li>• Make sure the Acoustimass® module cable is properly connected to the media center and the Acoustimass module.</li> <li>• Make sure the power cord is inserted securely into the Acoustimass module and plugged firmly into an operating AC wall outlet.</li> <li>• Be sure to select a source (CD/DVD, AM/FM, etc.).</li> <li>• Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself. After reconnecting the power cord, wait for the message "BOSE 3•2•1" to appear on the media center display.</li> </ul>
Disc won't eject	<ul style="list-style-type: none"> <li>• Turn off the unit.</li> <li>• Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself.</li> <li>• Before powering on, press and hold <b>Eject</b> on the media center.</li> </ul>
No sound	<ul style="list-style-type: none"> <li>• Increase the volume.</li> <li>• Check to see if <b>MUTE</b> is lit on the display. If it is, press the <b>Mute</b> button on the remote control to unmute the sound.</li> <li>• Be sure to select the correct source for the desired input.</li> <li>• On the remote, press the button for the source you want to hear. If you previously selected a source by pressing the <b>Source</b> button on the media center, you cannot control the new source with the remote until you press the button for this new source on the remote.</li> <li>• Make sure the Acoustimass module cable and speaker cable are firmly seated in their respective jacks and the multi-pin connector on the other end is firmly seated in the Acoustimass module jack.</li> <li>• Check speaker connections.</li> <li>• Turn the media center off for 10 seconds, then on again.</li> <li>• Check the connections for any external audio devices.</li> <li>• Be sure the disc is placed correctly, label-side up, in the CD tray.</li> <li>• Connect the FM and AM antennas.</li> <li>• Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself.</li> <li>• If you are using an optical digital audio connection, make sure that the optical jack is correctly assigned in the System menu.</li> <li>• Make sure the volume is turned up on the TV.</li> <li>• Check input level settings for each connected device in the System menu.</li> </ul>
Sound, but no picture	<ul style="list-style-type: none"> <li>• Make sure the TV is on.</li> <li>• When playing a DVD or other video source, make sure the TV is set to the correct video input.</li> </ul>
Remote control is inconsistent or does not work	<ul style="list-style-type: none"> <li>• Check batteries and their polarity (+ and –). See "Replacing the remote control batteries" on page 66.</li> <li>• On the remote, press the button for the source you want to hear. If you previously selected a source by pressing the <b>Source</b> button on the media center, you cannot control the new source with the remote until you press the button for this new source on the remote.</li> <li>• Point the remote control at the media center.</li> </ul>

<b>Problem</b>	<b>What to do</b>
Radio does not work or has poor reception	<ul style="list-style-type: none"> <li>• Make sure antennas are connected properly.</li> <li>• Move AM antenna at least 20 inches (50 cm) from the media center.</li> <li>• Adjust antenna position to improve reception.</li> <li>• Make sure the AM antenna is in the upright position.</li> <li>• Move antennas farther from TV or other electronic equipment.</li> <li>• You may be in an area of weak signal coverage.</li> </ul>
DVD or CD does not play	<ul style="list-style-type: none"> <li>• Check to see if the Play symbol in the display is lit.</li> <li>• After pressing the <b>CD•DVD</b> button, wait a few seconds before pressing <b>Play</b>.</li> <li>• Make sure the disc is properly inserted (label-side up).</li> <li>• Eject the disc and try loading it again.</li> <li>• There may be dirt or dust on the disc. Clean the disc. See “Cleaning discs” on page 65.</li> <li>• The disc may be defective. Try another disc.</li> <li>• Make sure region codes for both the DVD and player match. See “Checking for region code compatibility” on page 5.</li> </ul>
FM sound is distorted	<ul style="list-style-type: none"> <li>• Adjust antenna position to reduce interference.</li> </ul>
Sound is distorted	<ul style="list-style-type: none"> <li>• Make sure speaker cables are not damaged and the connections are secure.</li> <li>• Reduce the output level from any external audio devices connected to the music center.</li> <li>• Reduce the input level setting for the connected device in the System menu.</li> </ul>
Picture is black and white or rolling	<ul style="list-style-type: none"> <li>• Check the video cable connections.</li> <li>• Check the Video Format setting and change to appropriate setting (NTSC or PAL). See “Video options” on page 60.</li> </ul>
Forgot your password	<ul style="list-style-type: none"> <li>• Enter the password 2673 to unlock DVD access.</li> </ul>
“NO LABEL” appears on the media center display when using the Stored CD source	<ul style="list-style-type: none"> <li>• The uMusic® system uses a catalog of music information to identify and classify the CDs you store. A recent CD release might not be in the catalog. To receive music information updates, be sure to register your system.</li> <li>• Manually enter information using the edit screen (page 57).</li> </ul>
“BUSY PROCESSING CDs” appears on the media center display and it won’t let you store any more CDs	<ul style="list-style-type: none"> <li>• When you store a CD, the tracks are first placed in a holding area, which can hold up to 10 CDs. This message appears if this holding area is full. Wait 30 minutes and try again.</li> </ul>

## Customer service

For additional help in solving problems, contact Bose® Customer Service. Refer to the address list included in the carton.

## **Power rating**

USA/Canada: 120V ~ 60Hz 300W

International: 220-240V ~ 50/60Hz 300W

Dual voltage: 115/230V ~ 50/60Hz 300W

## **Audio inputs**

**AUX – Left, Right** (analog); **D** (digital)

**CBL-SAT – L, R** (analog); **D** (digital)

**TV – L, R** (analog); **D** (digital)

**Optical** – SPDIF digital, mapped to input

## **Audio outputs**

**Acoustimass® Module** – SPDIF

## **Video inputs**

**C** (composite) – NTSC or PAL format

**S-Video**

## **Video outputs**

**C** (composite) – NTSC or PAL format

**S-Video**

**Component Y, Pb, Pr**

## **Antennas**

**FM 75Ω** – external FM antenna

**AM** – external AM antenna

## **Maximum ambient temperature**

104°F (45°C)

## **Dimensions**

Media center: 3¼"H x 13¾"W x 10"D  
(8.3 cm x 34.9 cm x 25.4 cm)

Remote control: 1⅛"H x 2½"W x 9"D  
(3.0 cm x 6.5 cm x 22.9 cm)

3•2•1 GSX speakers: 2½"H x 5½"W x 4"D  
(6.4 cm x 14 cm x 10.5 cm)

Acoustimass module: 14½"H x 8¾"W x 19⅛"D  
(36.7 cm x 22.2 cm x 48.5 cm)

## **Weights**

Media center: 6.7 lb (3.0 kg)

GSX speakers: 1 lb (.45 kg) each

Acoustimass module: 23.3 lb (10.6 kg)

## **Finish**

Media center: polymer

Speakers: polymer

Acoustimass module: polymer

# END USER LICENSE AGREEMENT

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## ***Finding the right device codes***

Using the right device codes, you can set up your new universal remote to control the video devices you want to use with your speaker system. For the remote setup procedure, see your owner's guide.

To find available codes for a device, search the listing under the appropriate device type heading.

If you have a combination device, such as a TV with a built-in DVD or VCR device, first search the "COMBINATION" listings starting on page 20. If you cannot find a valid code there, then search the listings for individual device types. Keep in mind that combination devices may use the same code for each device in the unit.

<b>TV</b> .....	<b>A-2</b>
Television	
<b>CBL</b> .....	<b>A-8</b>
Cable box	
<b>SAT</b> .....	<b>A-9</b>
Satellite receiver	
<b>DVD</b> .....	<b>A-11</b>
<b>VCR</b> .....	<b>A-15</b>
VCR	
<b>DVR</b> .....	<b>A-19</b>
Digital Video Recorder	
<b>HDTV</b> .....	<b>A-19</b>
HDTV Decoder	
<b>Combination</b> .....	<b>A-20</b>
<b>TV/VCR</b> .....	<b>A-20</b>
TV/VCR combination	
<b>TV/DVD</b> .....	<b>A-20</b>
TV/DVD combination	
<b>TV/VCR/DVD</b> .....	<b>A-20</b>
TV/VCR/DVD combination	
<b>VCR/DVD</b> .....	<b>A-20</b>
VCR/DVD combination	
<b>CBL/DVR</b> .....	<b>A-21</b>
Cable/DVR combination	
<b>SAT/DVR</b> .....	<b>A-21</b>
Satellite/DVR combination	
<b>DVD/DVR</b> .....	<b>A-21</b>
DVD/DVR combination	

**TV**

Television

A-Mark ..... 0003  
 Abex ..... 0032  
 Addison ..... 0092, 0108, 0653, 1150  
 Admiral ..... 0093, 0463  
 Advent ..... 0761, 0783, 0815, 0817, 0842  
 Adventura ..... 0046  
 Adyson ..... 0032, 0217  
 AEA ..... 0037  
 AEG ..... 0606  
 Agashi ..... 0217  
 Aiko ..... 0037, 0092, 0217  
 Aim ..... 0208, 0606, 0706  
 Aiwa ..... 0701, 1180  
 Akai ..... 1537, 0812, 0745, 0714, 0708, 0706, 0702, 0698, 0672, 0631, 0606, 0602, 0556, 0548, 0480, 0217, 0208, 0178, 0060, 0037, 0030  
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 Alaron ..... 0179  
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 Alfide ..... 0672  
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 Allstar ..... 0037  
 Ambassador ..... 0177  
 America Action ..... 0180  
 Amplivision ..... 0217, 0370  
 Ampro ..... 0751  
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 Anam National ..... 0055, 0250, 0650  
 Andersson ..... 1163  
 Anex ..... 0037  
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 Anitech ..... 0037, 0282  
 Ansonic ..... 0370, 0556  
 AOC ..... 0003, 0018, 0019, 0030, 0052, 0060, 0092, 0093, 0108, 0178, 0179, 0180, 0185, 0451, 0628, 1150  
 Apex ..... 0156, 0765  
 Apex Digital ..... 0748, 0765, 0767, 0879, 0890  
 Arcam ..... 0217  
 Archer ..... 0003

Ardem ..... 0037, 0486, 0556, 0633, 0714  
 Aristona ..... 0037, 0556  
 ART ..... 1037  
 Astra ..... 0037  
 Asuka ..... 0217  
 ATD ..... 0698  
 Atlantic ..... 0001  
 Audinac ..... 0180  
 Audiosonic ..... 0037, 0217, 0370, 0486, 0714  
 Audioton ..... 0217, 0486  
 Audiovox ..... 0003, 0092, 0180, 0451, 0623, 0802, 0875  
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 Aventura ..... 0171  
 Awa ..... 0037, 0108, 0157, 0217, 0512, 0606, 0698  
 Axxon ..... 0714  
 Baile ..... 0001, 0661  
 Baird ..... 0208, 0217  
 Bang & Olufsen ..... 0565  
 Baosheng ..... 0817  
 Basic Line ..... 0037, 0217, 0282, 0556, 1037, 1163  
 Baur ..... 0037, 0146, 0512  
 Baysonic ..... 0180  
 Bazin ..... 0217  
 Beaumark ..... 0178  
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Hisense .....	0037, 0145, 0156, 0208, 0508, 0512, 0556, 0706, 0748, 0780, 1156	Jean.....	0003, 0051, 0092, 0156, 0179, 0236	LG.....	1265, 1178, 0856, 0714, 0700, 0698, 0644, 0606, 0556, 0442, 0178, 0108, 0060, 0056, 0039, 0038, 0037, 0032, 0030, 0019, 0003, 0001
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Hitachi Fujian.....	0037, 0108, 0145, 0150	Jiahua.....	0051	Liesenkotter.....	0037
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Ssangyong.....	0072	Thomson.....	0041, 0060, 0067, 0202, 0278, 0320, 0722	ZT Group.....	1972
Stack 9.....	1972	Thorn.....	0037, 0041, 0104	ZX.....	0209, 0348, 0352
Starlite.....	0037	Tivo.....	0618, 0636, 0722, 0739, 1337, 1503		
		TMK.....	0208, 0240		
		Tokai.....	0037, 0072		
		Topline.....	0348		



**DVR**

Digital Video Recorder (DVR)

ABS .....	1972
Alienware.....	1972
CyberPower .....	1972
Dell .....	1972
DirecTV.....	0739
Gateway .....	1972
Howard Computers.....	1972
HP .....	1972
Hughes Network Systems .....	0739
Humax.....	0739
Hush.....	1972
iBUYPOWER.....	1972
JVC.....	1279
LG.....	2010
Linksys .....	1972
Media Center PC.....	1972
Microsoft .....	1972
Mind .....	1972
Niveus Media .....	1972
Northgate .....	1972
Panasonic.....	0616, 1244, 1807
Philips.....	0618, 0739, 1340
RCA.....	0880
ReplayTV .....	0614, 0616
Sonic Blue.....	0614, 0616
Sony .....	0636, 1447, 1972
Stack 9 .....	1972
Systemax .....	1972
Tagar Systems.....	1972
Thomson .....	0722
Tivo.....	0618, 0636, 0722, 0739
Toshiba.....	1008, 1972
Touch.....	1972
Viewsonic .....	1972
Voodoo .....	1972
ZT Group.....	1972

**HDTV**

HDTV Decoder

Accurian .....	1653
DirecTV.....	0392
Epson .....	1563, 1650
Hisense.....	1535
iLo.....	1535
LG.....	1414, 1415
Macro Image Technology .....	1383
Motorola .....	1363
MyHD .....	1383
Panasonic.....	1120
Pioneer .....	1010
Princeton.....	0113, 0295
Proton.....	1535
Samsung .....	1276, 1190, 1490
Sasem .....	1641
Sensory Science .....	1126
Sharp.....	1010
Sylvania.....	1563
Telemann .....	1604
Toshiba.....	1446
US Digital .....	1535
USDTV.....	1535
Zenith .....	1856
Viewsonic .....	1329
Vizio .....	1126

**Combination**

**TV/VCR**  
TV/VCR combination

Aiwa.....	0000, 0468, 0479, 0680, 0687, 0742, 1336, 1468
America Action.....	0278
Audiovox.....	0278
Broksonic.....	0002, 0479, 1479
Citizen.....	1278
Colt.....	0072
Curtis Mathes.....	1035
Daewoo.....	0637, 0844, 1278
Dick Smith Electronics.....	0579
Digitor.....	0579
DSE.....	0579
Emerson.....	0002, 0479, 0593, 0637, 1278, 1479
Funai.....	0000, 1333
GE.....	0240, 0807, 1035, 1060
GoldStar.....	1237
Goodmans.....	0343, 0637
Harley Davidson.....	0000
Hitachi.....	0000, 1326
JVC.....	1329
LG.....	0480, 1037
Lloyd's.....	0000
Magnasonic.....	0593, 1278
Magnavox.....	0000, 0593, 1781
Magnin.....	0240
Memorex.....	0162, 1037, 1162, 1237, 1262
MGA.....	0240
Mitsubishi.....	0043, 0807
Nokia.....	0552
Optimus.....	0162, 0593, 1162, 1262
Orion.....	0002, 0479, 1479
Panasonic.....	0162, 1035, 1162, 1262, 1308, 1317, 1662
Penney.....	0240, 1035, 1237
Philco.....	0479
Quasar.....	0162, 1035, 1162
RadioShack.....	0000, 1037
RCA.....	0240, 0807, 1035, 1060
Reoc.....	0877
Samsung.....	0432, 1014
Sansui.....	0000, 0479, 1479
Sanyo.....	0240, 1330, 1331

Sears.....	0000, 1237
Sharp.....	0807
Sony.....	0000, 1232, 1295, 1296, 1297
Sylvaniav.....	1781
Symphonic.....	0000, 0593
Teac.....	0000, 0593, 0637, 0781
Thomas.....	0000
Toshiba.....	0845, 1145, 1323, 1325
White Westinghouse.....	0637
Zenith.....	0000, 0479, 0637, 1479

**TV/DVD**  
TV/DVD combination

Advent.....	1016
Apex Digital.....	0830
Audiovox.....	1071, 1121, 1122
Axion.....	1071
Broksonic.....	0695
Bush.....	0516, 0676, 0713, 0879, 0884
Cinego.....	1399
Classic.....	1385
Daewoo.....	0870
Dantax.....	1358
Denver.....	1353, 1359
DMTech.....	1271
Emerson.....	1268
Go Vision.....	1071
Goodmans.....	0879
Grundig.....	0695
Hitachi.....	1247
Jensen.....	1016
KLH.....	1261
Konka.....	0719, 0720
Mirror.....	0879
Neovia.....	1271
Panasonic.....	1490
Philips.....	0854, 1260
Prima.....	1016
RCA.....	1022, 1193
Roadstar.....	1339
Saivod.....	1367
Samsung.....	0899
Sansui.....	0695
Sova.....	1122
Sylvania.....	0675, 1268
Teac.....	0758, 1021

Toshiba..... 0695

**TV/VCR/DVD**  
TV/VCR/DVD combination

Aikai.....	0899
Broksonic.....	0868
Emerson.....	0821
Funai.....	1334
Magnavox.....	0821
Orion.....	1128
Panasonic.....	1362, 1462
RCA.....	1132
Sharp.....	0630, 0807
Superscan.....	0821
Sylvania.....	0821
Toshiba.....	1045

**VCR/DVD**  
VCR/DVD combination

Allegro.....	0869
Apex Digital.....	1061
Broksonic.....	0695
CineVision.....	0833, 0869, 1483
Daewoo.....	0833, 0869
Dick Smith Electronics.....	0833, 1483
DSE.....	0833, 1483
Emerson.....	0675, 1593
Funai.....	0675, 1593
Go Video.....	0715, 0741, 0744, 0833, 0869, 1044, 1075, 1483
GoldStar.....	0741
Hitachi.....	0664, 0000
JVC.....	0867, 1164, 1241
LG.....	0741, 0869
Lunatron.....	0741
Memorex.....	0695
Orion.....	1695
Panasonic.....	0490, 1762, 1562
Philips.....	0675, 1267, 0593
Polaroid.....	1061
RCA.....	0522, 0822, 0060
Samsung.....	0744, 0820, 1044, 1075
Sansui.....	0695, 1695
Sanyo.....	0873, 0104
Sharp.....	0630, 0848
Sony.....	0864, 1431

Combination

Sylvania.....	0675, 0000, 0593, 1593
Symphonic.....	0675, 0000, 1593
Teac.....	0833, 1483
Toshiba.....	0503
Zenith.....	0741, 0869

**CBL/DVR**  
Cable/DVR combination

Americast.....	0899
Digeo.....	1187
Freebox.....	1482
General Instrument.....	0476, 0810
Jerrold.....	0476, 0810
Motorola.....	0476, 0810, 1106, 1187, 1376
Nokia.....	1569
Noos.....	1624
Pace.....	0237, 1877
Pioneer.....	0877, 1877
RCA.....	1256
Scientific Atlanta.....	0877, 1877
Sony.....	1006
Supercable.....	0276
Thomson.....	1256
Zenith.....	0899

**SAT/DVR**  
Satellite/DVR combination

@sat.....	1300
Amino.....	1615
Atsat.....	1300
British Sky Broadcasting.....	1175
Canal Satellite.....	1339
Comag.....	1412
Digiturk.....	1076
DirecTV.....	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640
Dish Network System....	0775, 1505
Dishpro.....	0775, 1505
Dream Multimedia.....	1237
Echostar.....	0610, 0775, 1170, 1505
Expressvu.....	0775
Foxtel.....	1356
GbSAT.....	1214
Grundig.....	1150

Hughes Network.....	1142, 1442, 1443, 1444
Systems	
Humax.....	1176, 1427, 1568, 1670, 1675
Hyundai.....	1159
JVC.....	1170
Kathrein.....	1221, 1561
Maximum.....	1334
Motorola.....	0869
Nokia.....	1311
Opentel.....	1412
Pace.....	1423, 1623
Panasonic.....	1320
Philips.....	0099, 1142, 1442
Proscan.....	0392
RCA.....	1392
Rebox.....	1214
Sagem.....	1253, 1307
Samsung.....	1442
Sharp.....	1489
Siemens.....	1657
SKY.....	1175, 1848
Skyplus.....	1412
Sony.....	0639, 1640
Star Choice.....	0869
Strong.....	1300
Thomson.....	1900
Topfield.....	1206, 1545
TPS.....	1253, 1307
Zehnder.....	1075, 1412

**DVD/DVR**  
DVD/DVR combination

Go Video.....	1730
Mustek.....	1730
Panasonic.....	1807, 0490, 1010, 1011
Philips.....	1340, 0539, 1158, 1818
Pioneer.....	1337, 0631, 1816
RCA.....	0880, 0522
Sharp.....	1256
Tivo.....	1337, 1816
Toshiba.....	1008, 1503



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