

# 3•2•1 GS Series II

## 3•2•1 Series II

DVD HOME ENTERTAINMENT SYSTEMS

Owner's Guide

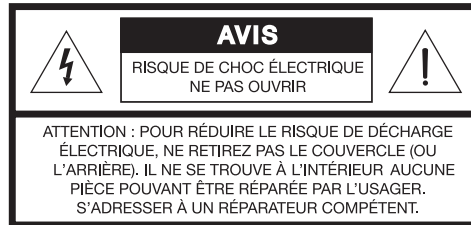
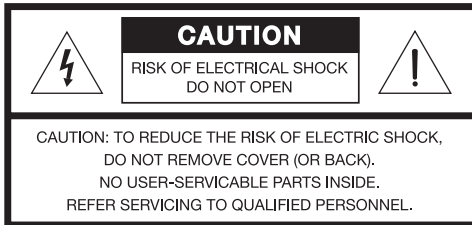


# SAFETY INFORMATION

## 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 Series II 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.

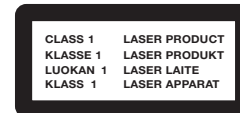


The exclamation point within an equilateral triangle alerts the user to the presence of important operating and maintenance instructions in this owner's guide.

- 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.



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 on [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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**DEVICE CODES** **A-1**

## Before you begin

Thank you for purchasing the Bose® 3•2•1 Series II or 3•2•1 GS Series II 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 Series II systems provide 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 the Setup section of this guide
- Setup DVD

## System features

- Integrated AM/FM tuner and DVD/CD player in a small console
- Small, easy-to-place shelf speakers and an attractive hideaway Acoustimass® module
- Easy-to-use infrared remote control
- Media center input jacks for a TV, cable/satellite box or other component such as a DVR

## Selecting compatible discs

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

- Video DVD 
- Audio CD 
- Video CD 
- CD-R and CD-R/W
- DVD+R, DVD-R, DVD+RW and DVD-RW
- 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)

## 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 Series II DVD home entertainment systems have a region code which must also match the DVD discs.

Check the region code number on the carton of the 3•2•1 Series II 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:




## 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. Technically called a part of title (PTT).

**Component Video** – A video signal split into three parts: luminance and two color signals (marked as YPbPr). It provides the highest resolution video, but cannot be processed by all television sets.

**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.



– the logo representing Dolby® Digital.

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



– the logo representing DTS.

**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.

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

**Letterbox** – The projected aspect ratio of feature films is often 16:9 rather than the 4:3 aspect ratio of most TVs. Therefore, it is becoming common practice to transfer films to video with black borders at the top and bottom of the picture. The film picture becomes a “letterbox” within the video.

**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.

**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.

**Title** – numbered elements of the DVD contents, which may include more than the movie alone.

**Track** – Individual selections recorded on an audio tape or disc.

## Limited warranty

The 3•2•1 Series II and 3•2•1 GS Series II home entertainment systems are 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.

## For your records

Serial numbers are located on the bottom of the media center and the rear of the Acoustimass® module. Please have your serial number ready before contacting Bose® Customer Service.

Model:     3•2•1 Series II     3•2•1 GS Series II      Check one

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.

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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.

“DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

MPEG Layer-3 audio compression technology licensed by Fraunhofer IIS and THOMSON multimedia.

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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.

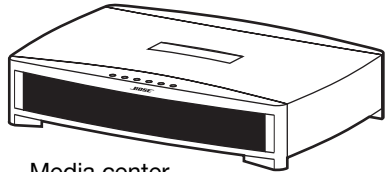
**WARNING:** To avoid danger of suffocation, keep the plastic bags out of the reach of children.

**Figure 1**

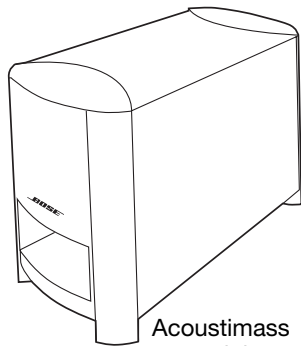
Contents of the shipping carton

Your system includes one of the following cords:

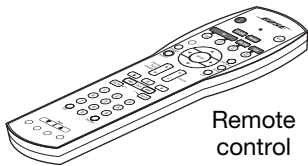
- 120 VAC power cord (U.S./Canada)
- 115/230 VAC power cord with adapter (U.S./Europe)
- 230 VAC power cord (Europe)
- 230 VAC power cord (U.K./Singapore)
- 240 VAC power cord (Australia)



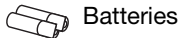
Media center



Acoustimass module



Remote control



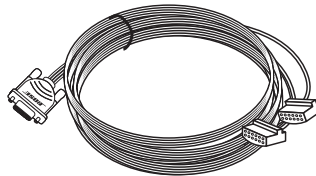
Batteries



FM antenna



Acoustimass® module cable

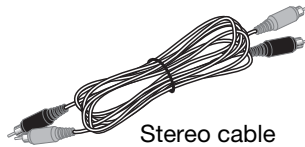


Speaker cable

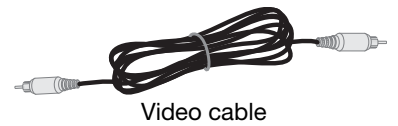
**Note:** If you purchased a 3•2•1 GS Series II system, the left and right speaker cable connectors will be marked with a "GS".



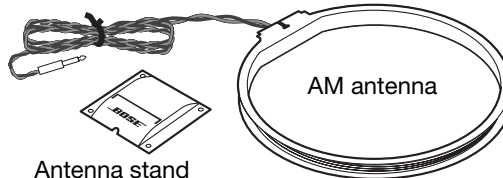
Rubber feet for Acoustimass module



Stereo cable

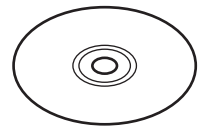


Video cable



AM antenna

Antenna stand



Setup and demo disc

Your system includes one of the following speaker types:

- 3•2•1 speakers
- or
- 3•2•1 GS speakers
- Rubber feet for speakers

**Note:** Now is a good time to find the serial numbers on the bottom of the media center and Acoustimass module. Copy these numbers onto your product registration card and in the space provided on page 7.



## Selecting locations for your 3•2•1 Series II system components

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

### Placing the media center

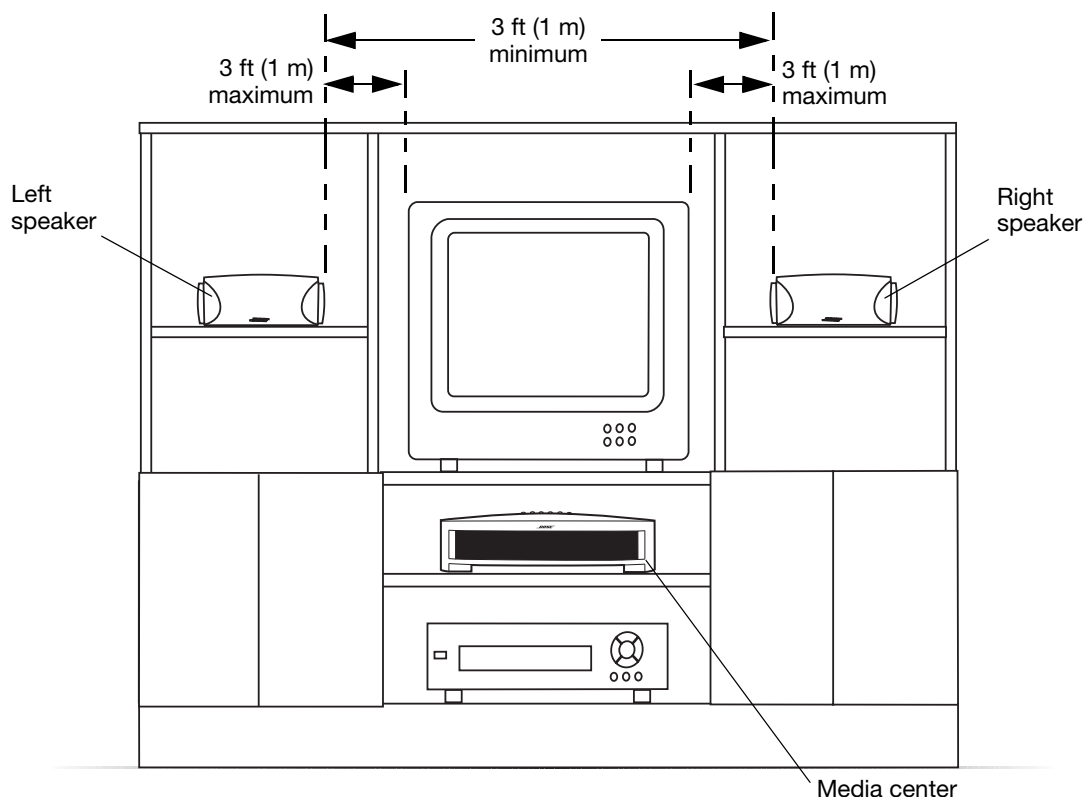
⚠ **CAUTION:** Do not block any ventilation openings. For reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation. For example, do not place the product on a bed, sofa, or similar surface that 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.
- Make sure the media center will be placed close enough to the Acoustimass® module and the speakers so that all the cables will reach.
- Make sure the media center will be placed close enough to additional source devices (TV, VCR or cable box) so that all the cables will reach.

♪ **Note:** 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 speakers are magnetically shielded to prevent interference with the TV screen.

### Placing the speakers

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

- Place the two speakers either on top of the TV or at equal distance from the left and right of the TV screen (Figure 2). Keep both speakers at approximately the same height.
- 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.
- Place the speakers at least **3 feet (1 meter) apart from each other** to optimize the surround sound experience.

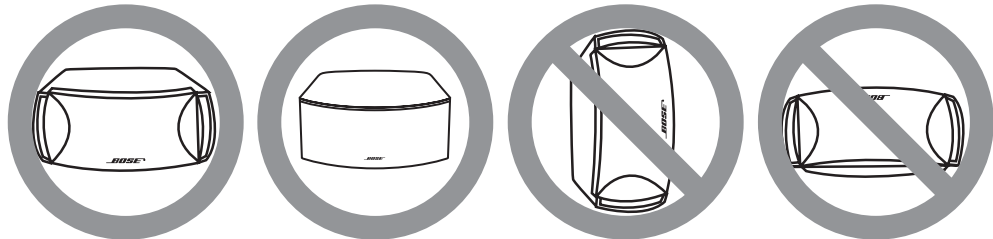
**⚠ CAUTION:** Choose a stable and level surface for both speakers. Vibration can cause the speakers to move, particularly on smooth surfaces like marble, glass, or highly polished wood. If you are placing the speakers on a flat surface, be sure to attach the smaller of the two sets of supplied rubber feet to the bottom surface. You may obtain additional rubber feet (part number 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 54. Additional or longer cables may also be ordered.

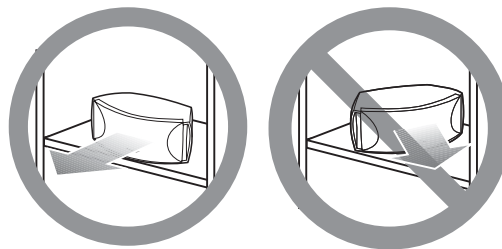
**Figure 3**

Recommended speaker placement

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



- Aim the speakers straight ahead toward 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.**

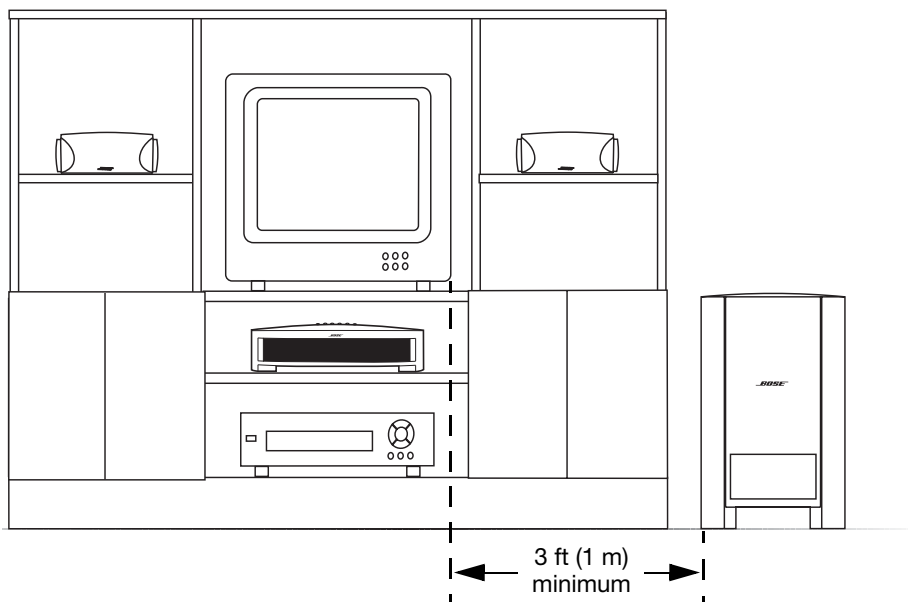


### Placing the Acoustimass® module

- Place the Acoustimass® module within reach of the cable from the music center and an AC (mains) power outlet.
- 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.

**Figure 4**

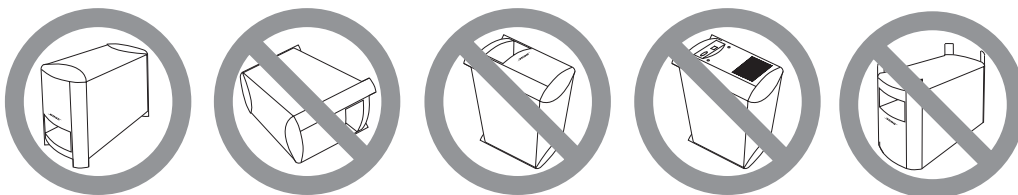
Recommended  
Acoustimass module  
placement



- Attach the medium-sized rubber feet to the bottom of each foot on the module. The rubber feet provide increased stability and protection from scratches.
- Choose a convenient location such as under a table, behind a sofa or chair, or behind drapes, but do not block the port opening.
- 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.

**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.

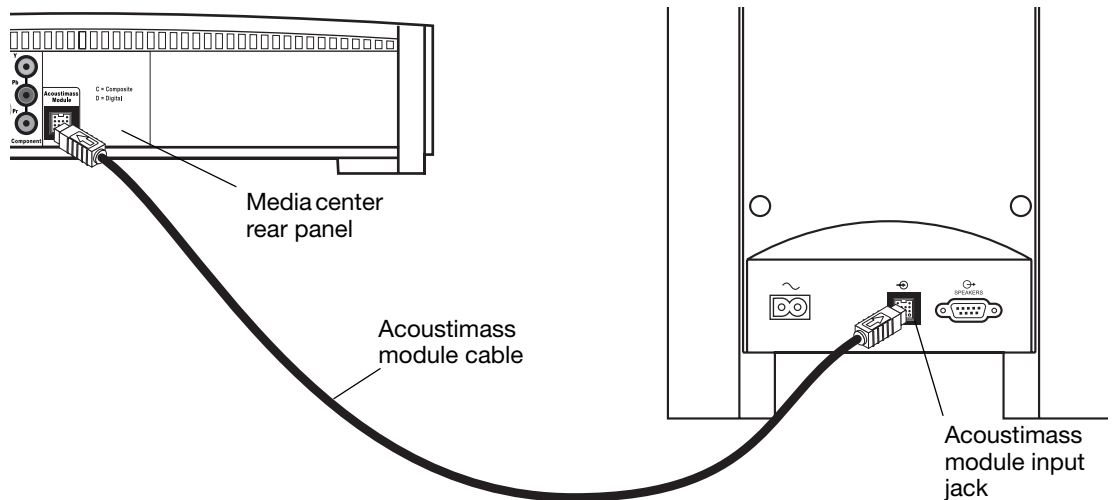
### Connecting the Acoustimass module to the media center

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

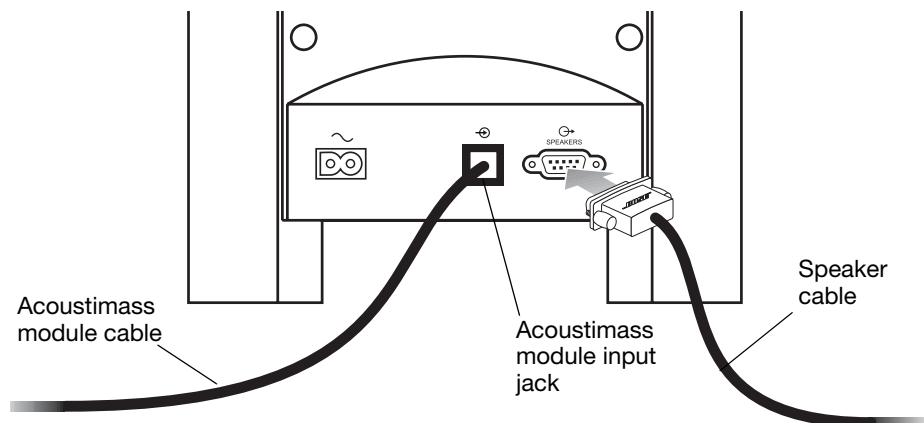


### Connecting the speakers to the Acoustimass module

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**

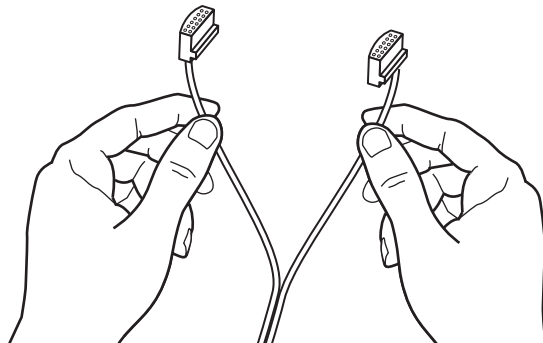
Speaker cable-to-Acoustimass module connection



- 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

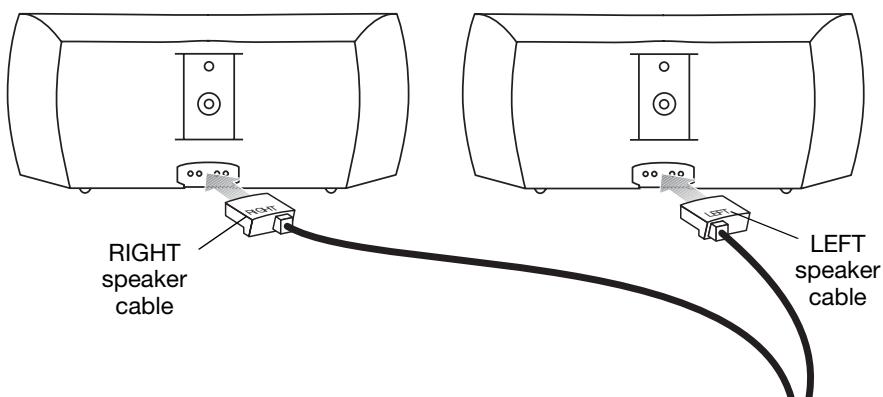


**Note:** If you purchased a 3•2•1 GS Series II system, the left and right speaker cable connectors will be marked with a “GS”.

- 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



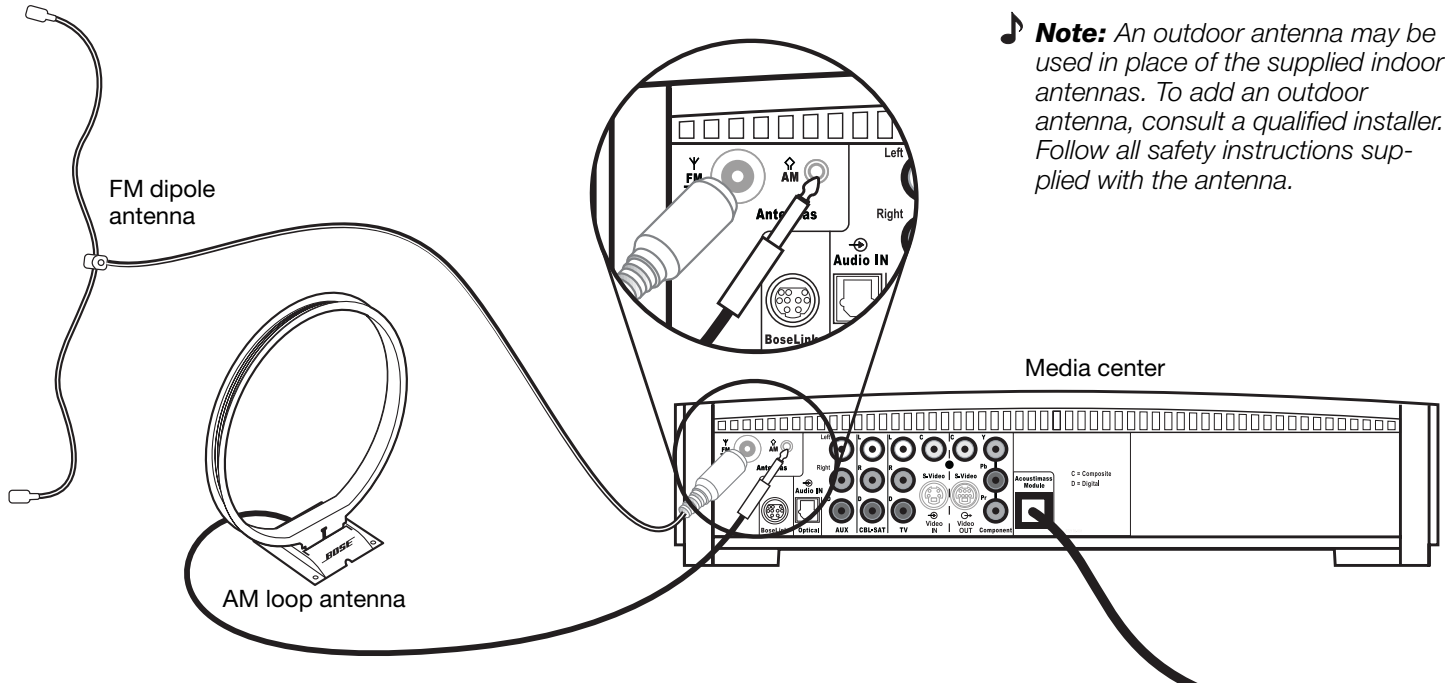
🎵 **Note:** Make sure cable connectors are fully inserted and seated firmly in the speaker jacks.

## 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.

**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

♪ **Note:** If you will be using the 3•2•1 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 “If your TV does not have audio output jacks” 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

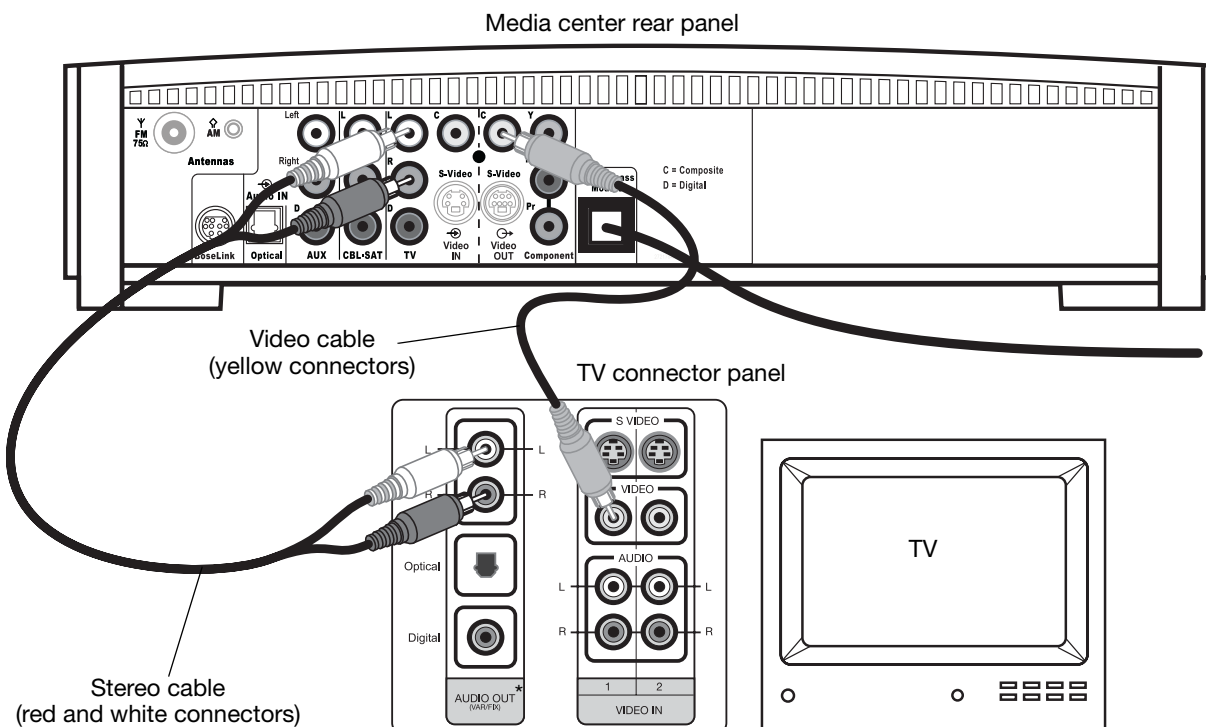
♪ **Note:** Some older TVs with standard TV cable connectors do not have a composite video or an S-video input. Such TVs are not compatible with any DVD players and require use of an RF modulator for this connection. RF modulators are available at your local electronics store.

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 system video output.**



\*Could be labelled “FIXED”, “MONITOR”, or “HiFi”.

## Connecting your TV and VCR to the media center

**Note:** There are two options for connecting your TV and VCR to the media center. Before you proceed, you must determine if your TV has audio output jacks. Consult your TV owner's guide if you need assistance.

### If your TV has audio output jacks

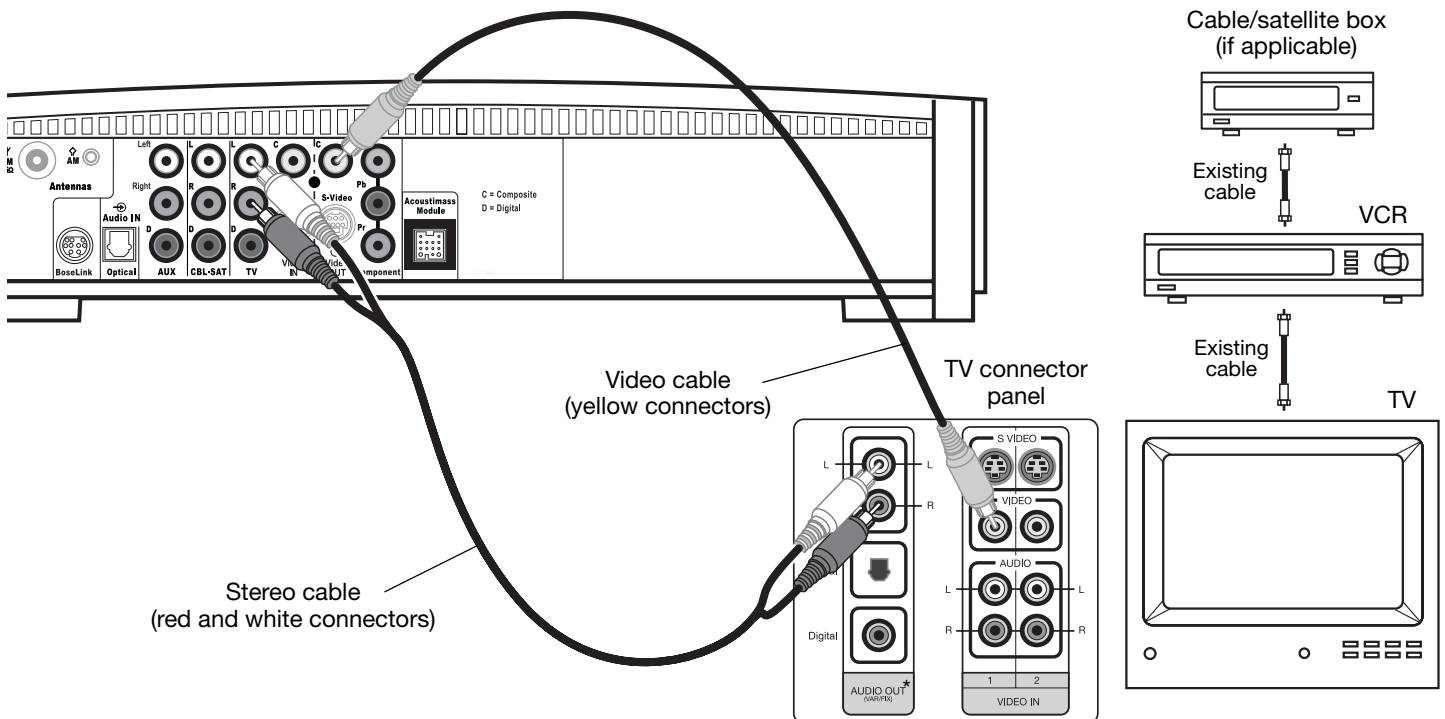
If your TV has audio output jacks, you can directly route the TV audio to the 3•2•1 home entertainment system (Figure 12).

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**

TV and VCR connections with media center

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 system video output.



\*Could be labelled "FIXED", "MONITOR", or "HiFi".



### If your TV does not have audio output jacks

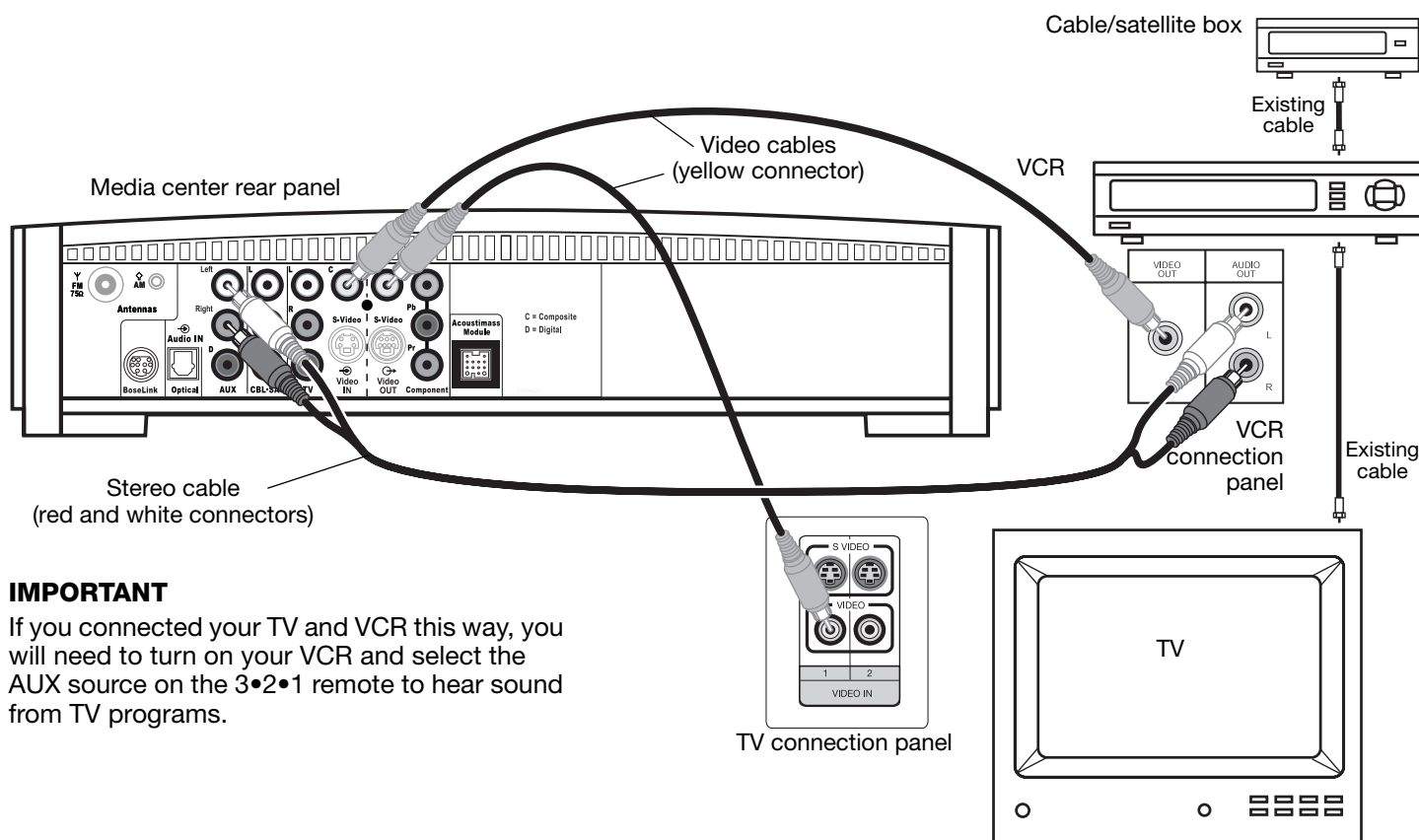
If your TV does not have audio output jacks, you will need to feed audio to the 3•2•1 home entertainment system through a secondary source, such as a VCR. To do this, you will need one additional video cable, which can be purchased at your local electronics store.

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 supplied video 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 second video cable into one of the video input jacks on your TV.

**Figure 13**

System setup when TV has no audio output jacks

**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 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 Series II 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 and is not labeled **Stereo** or **Hi-fi**, 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 44) so your 3•2•1 system will simulate surround sound effects from a mono source. Otherwise, you will hear mono sound from both speakers.

**Advanced setup options**

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

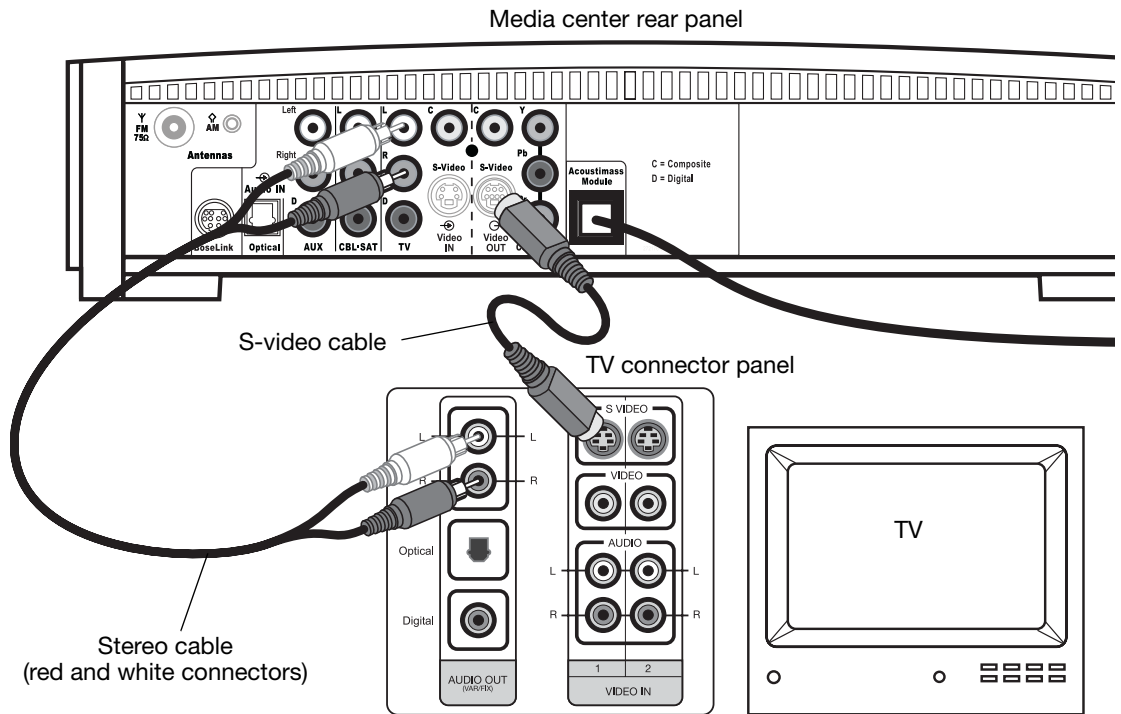
An S-video input jack, provided on many TVs, delivers a higher quality TV picture than the composite video output connection shown in Figure 11. For this connection you will need an S-video cable which can be purchased from your Bose dealer or a local electronics retailer.

- Insert one end of the S-video cable into the **S-Video OUT** jack on the media center (Figure 14).
- 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 feature of your 3•2•1 system. Your TV must also support this feature. To turn on the progressive scan feature, see “Video options” on page 48.

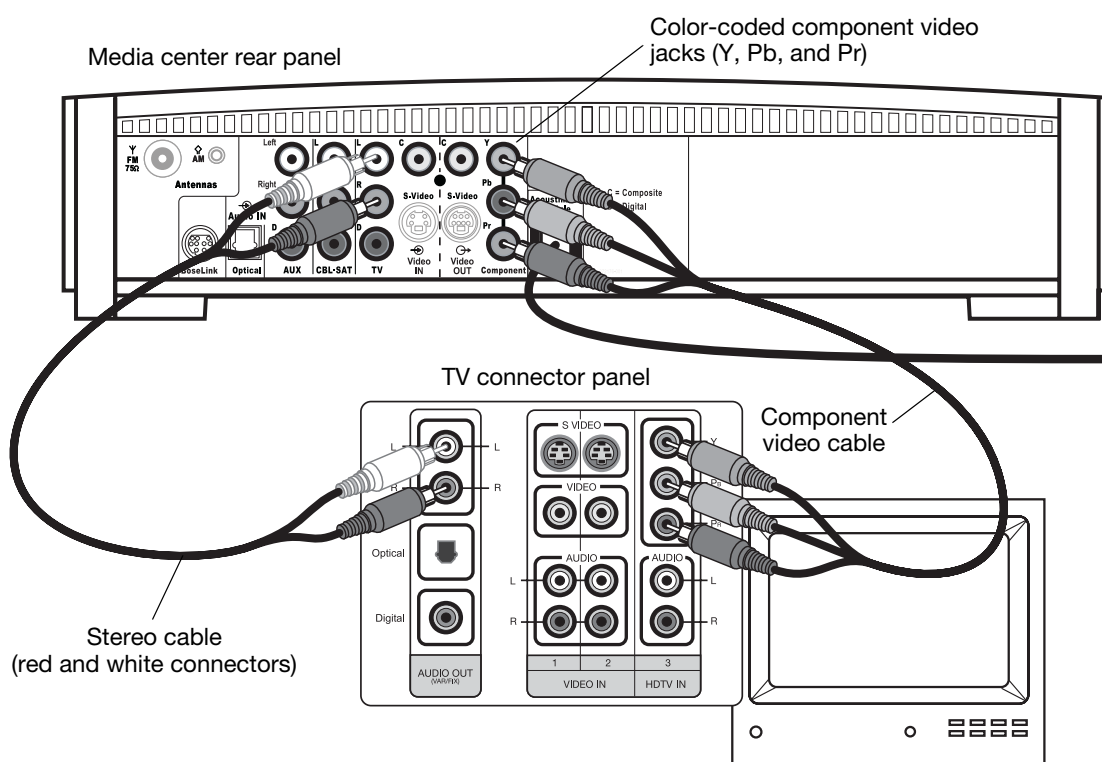
For the highest quality video from DVDs, you may want to use a component video connection between the media center and the TV. To do so, your TV must provide component video jacks (typically labelled Y, Pb, and Pr). Refer to your TV owner’s guide for more information.

To make component video connections you will need three video grade cables that are long enough to reach from the rear of the media center to your TV (Figure 15). If the cables are not supplied with your TV, you can purchase them separately.

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

**Figure 15**

TV (component video)-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 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

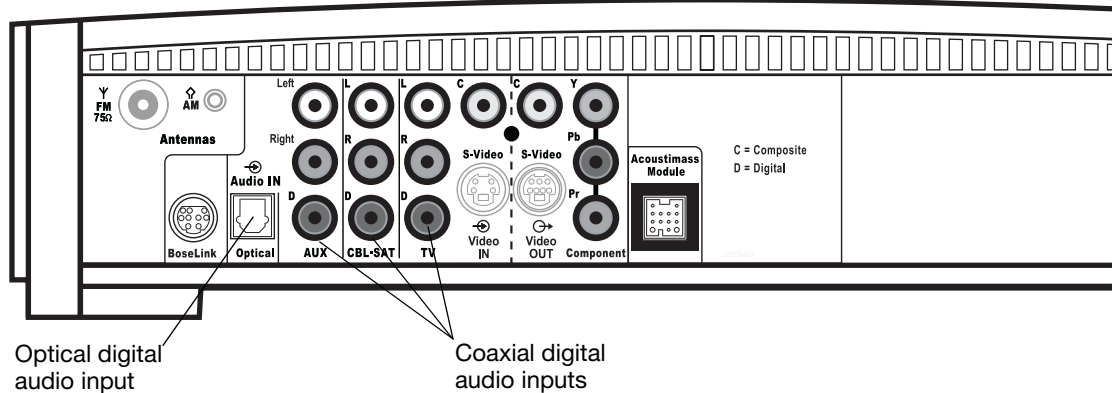
Some audio devices may feature a digital audio output for optimum sound performance. Use an optical digital cable or a coaxial digital cable, as appropriate, to connect this output to the digital input on the media center. You can purchase the required cables at a local electronics store.

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 49.

**Figure 16**

Media center digital audio input jacks



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

The 3•2•1 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:

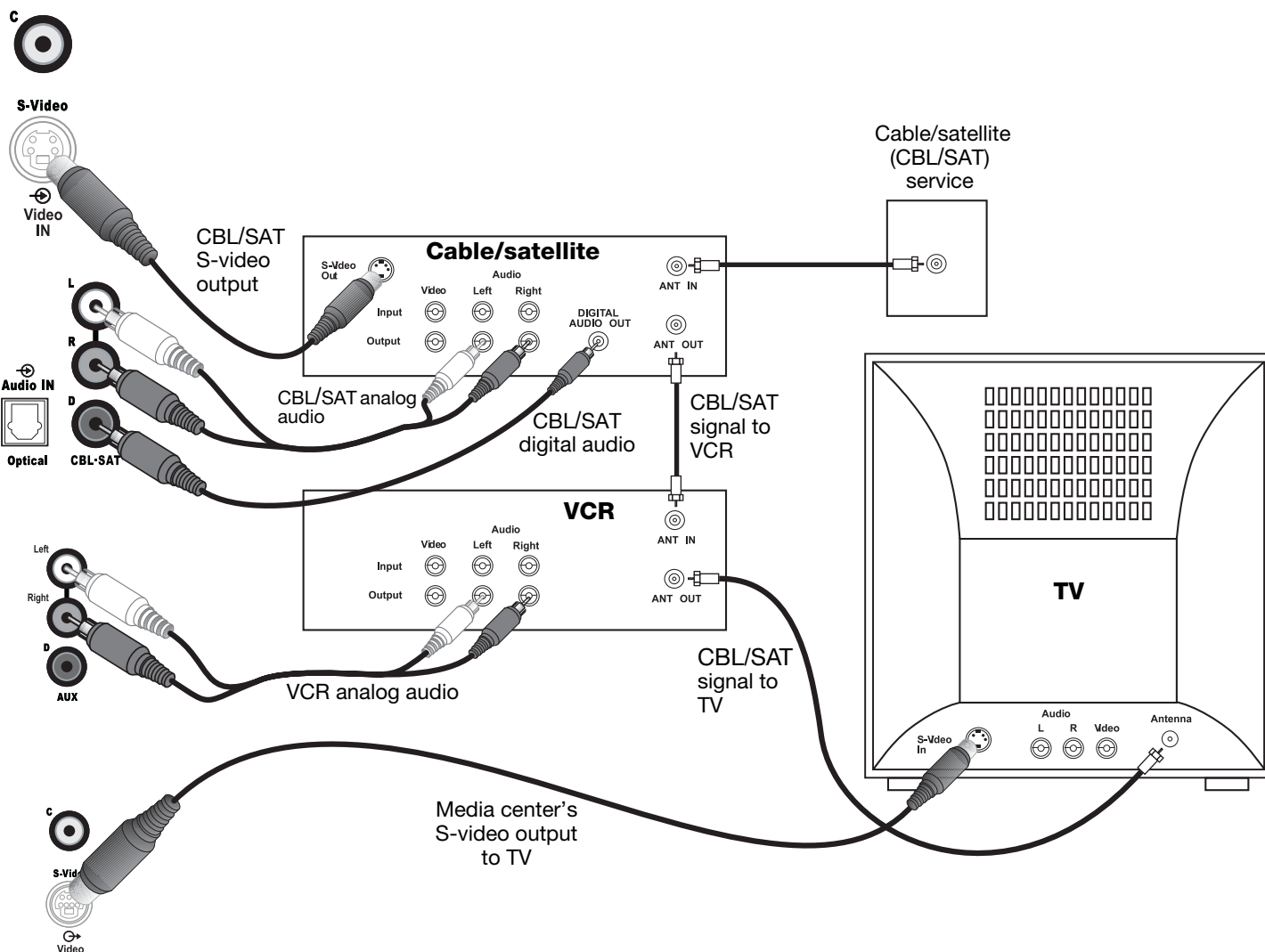
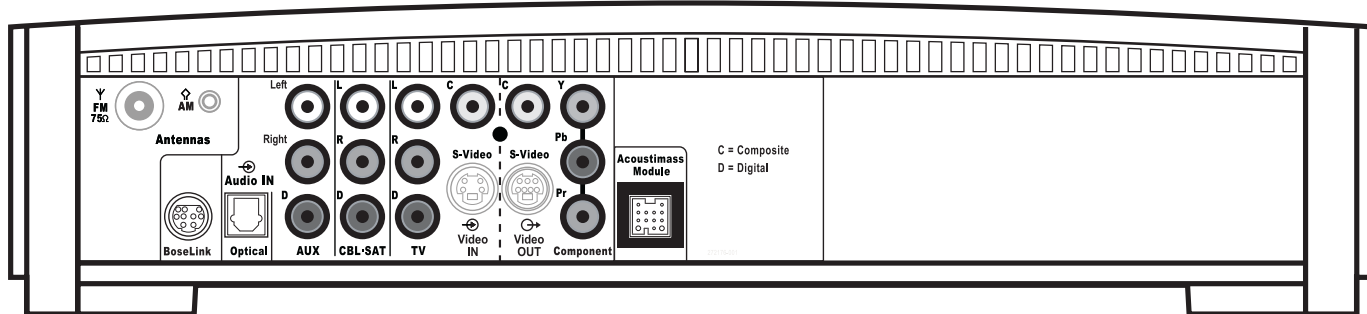
- S-video connections are used to deliver the cable/satellite signal to the media center. Therefore, the media center output video is sent to the TV also through an S-video connection.
- Analog and digital coax audio connections are shown for the cable/satellite box. As an option, you may use an optical 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 49.
- 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 Series II 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: TV, VCR and cable/satellite box

**Media center**



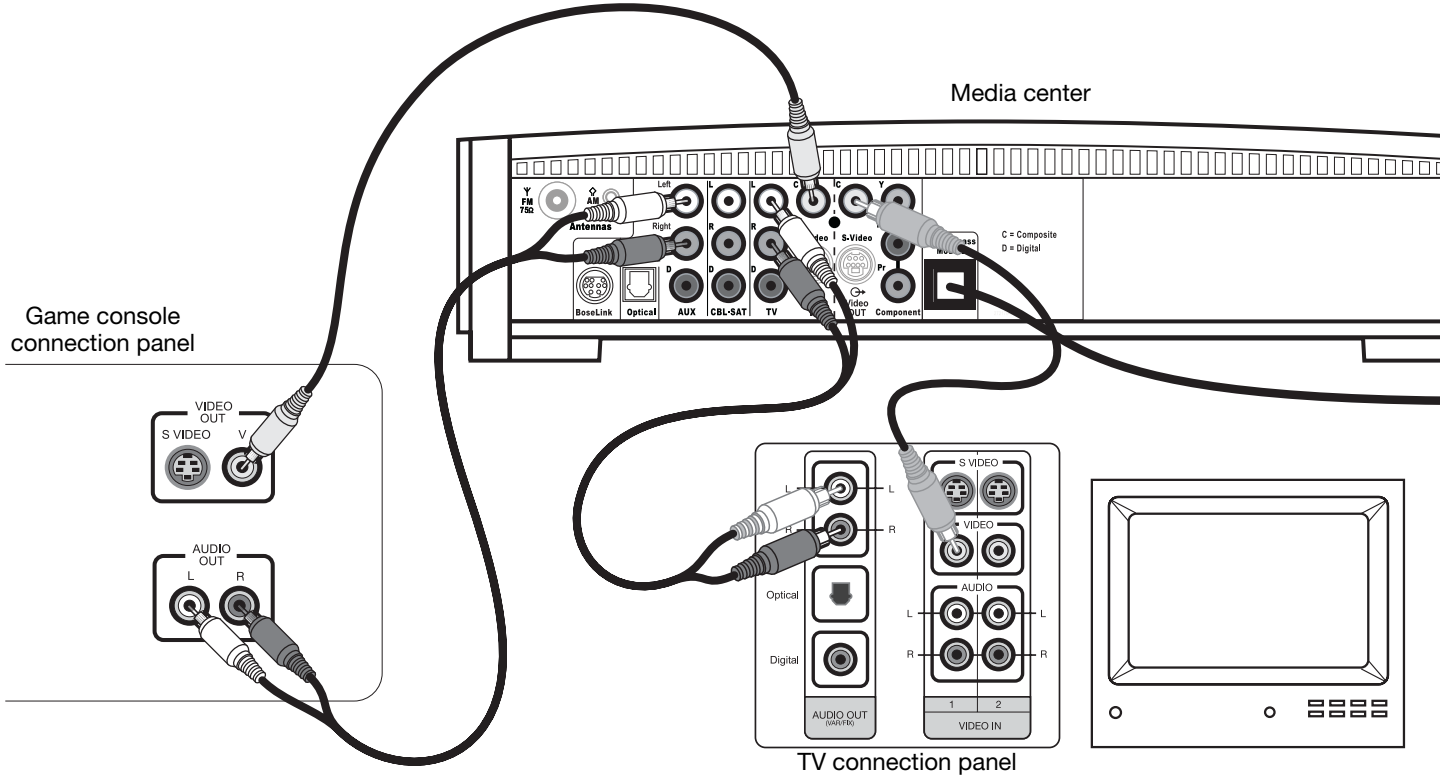
**Note:** For more information on advanced connections, refer to the DVD setup disc that came with your 3•2•1 Series II home entertainment system.

### 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**

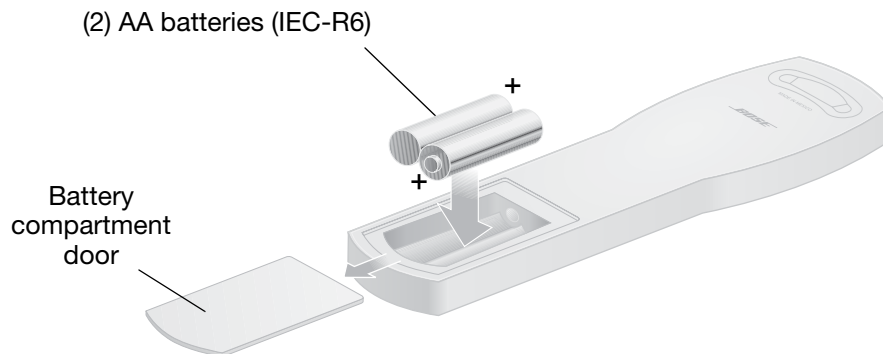
If you connected your game console this way, you will need to select the AUX source on the 3•2•1 remote in order to hear sound from the game console.

## 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

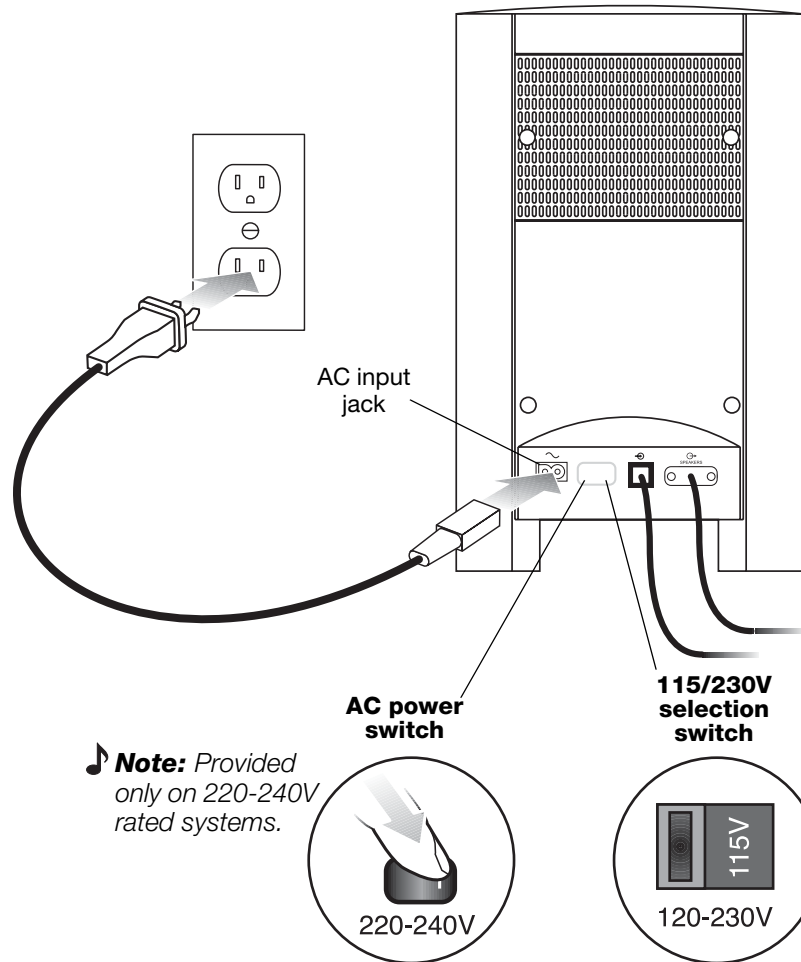
**⚠ CAUTION:** For dual voltage models only, be sure to set the dual voltage switch on the back of the Acoustimass® module to the appropriate voltage for your area (115V or 230V) before connecting to power. If you are not sure about the proper voltage for your area, consult your local electrical authorities.

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:** Provided only on 220-240V rated systems.

**🎵 Note:** Provided only on 115/230V dual voltage rated systems.

**🎵 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.



## Checking 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 setup DVD.

- A. Turn on your 3•2•1 system. Point the 3•2•1 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.

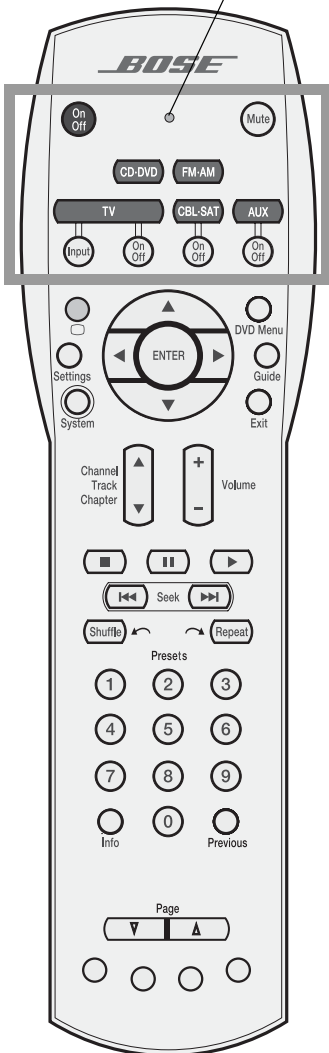
- Refer to your TV owner's guide for help.
- If your TV does not have an option to turn off the internal speakers, you may need to adjust both the 3•2•1 system volume and your TV volume until you find a level that produces the desired sound.
- In some TVs, when the internal speakers are turned off, you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

Remote status LED



- Turns the system on or off.



Status LED:

- Remains off (unlit) during normal operation.
- Remains on during setup mode. Turns off briefly with each key press.
- Blinks rapidly eight times if the wrong key is pressed during setup or if an unavailable device code is entered.
- After ten seconds of no key presses, blinks rapidly eight times and the remote exits the setup mode.



- Silences or restores the sound from the current source.



- Selects the built-in CD/DVD player and turns the system on.



- Selects the built-in tuner and turns the system on to the previously selected FM/AM station.
- Switches between FM and AM when the tuner is selected.



- **TV:** Turns your system on and selects the TV input as the sound source.



- **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:** Turns your system on and selects the CBL-SAT input as the sound source.



- **On/Off:** Turns your cable/satellite box on or off.\*



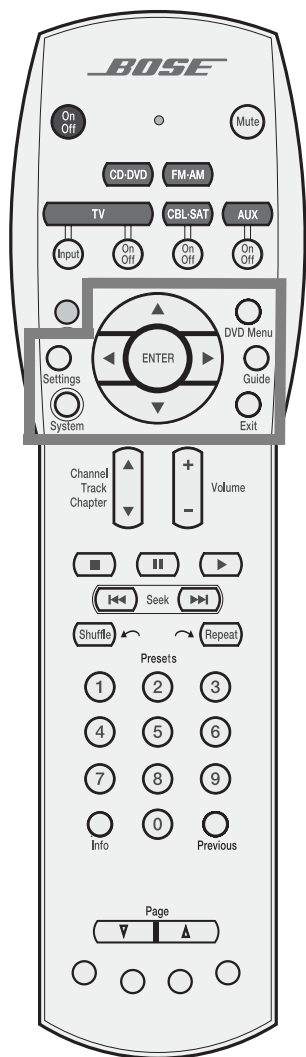
- **AUX:** Turns your system on and selects the AUX input as the sound source.







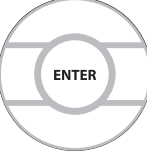
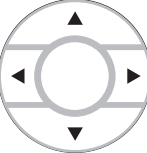


- **On/Off:** Turns a VCR or DVR that is connected to the AUX jack on or off.\*

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 30.

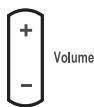
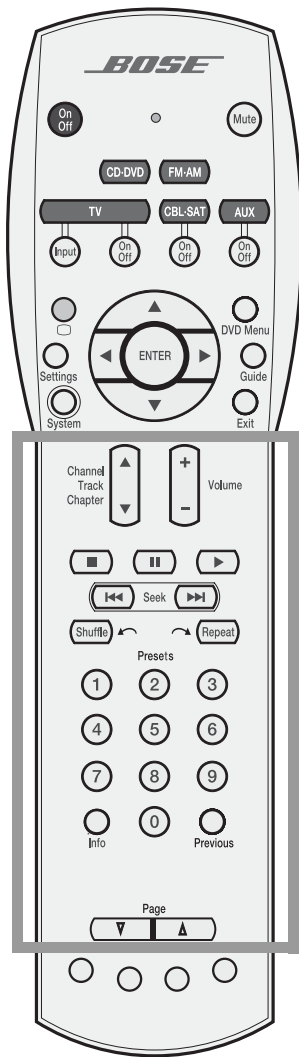
**Remote control – cont.**



- 
  - Puts the Settings menu for the current source on your TV screen or media center display.
- 
  - Puts the System menu on your TV screen.
- 
  - Puts the DVD menu of the currently loaded DVD disc on your TV screen.
  - Puts the main menu of a cable/satellite box, VCR, or DVR 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 onscreen menus and media center displays.

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 30.

**Remote control – cont.**



- 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.



- 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 [Play/Pause] continues the DVD from the saved play position. Pressing [Stop] twice for a disc in play returns to the beginning of the disc.



- Pauses a currently playing disc.
- Pressing [Play/Pause] again (or pressing [Play/Pause]) 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.



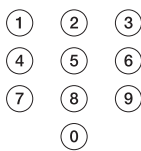
- Skips backward or forward through CD tracks.
- Skips backward or forward through DVD chapters.
- Seeks backward or forward to the next strongest radio station.



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



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



- Provides a means for selecting a CD track, DVD chapter, radio station preset, or TV channel.
- Allows you to change numerical values for some menu options.



- Displays or exits the TV, cable, satellite box, or VCR/DVR information on your TV screen.\*
- During MP3 play, removes or restores track information on the media center display.



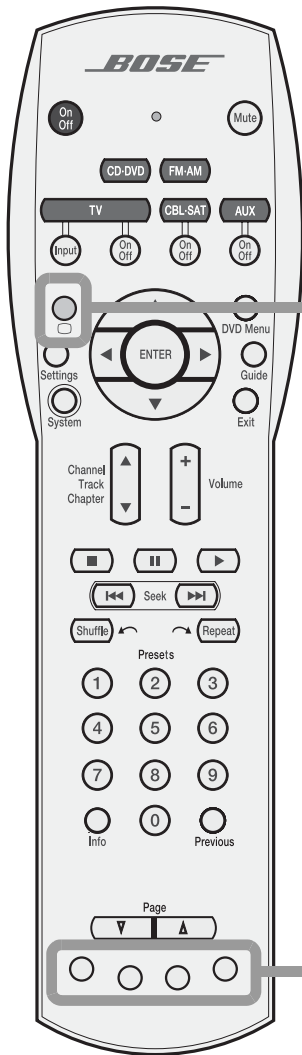
- Skips to the previous TV channel (if supported by your TV).



- Skips ahead (Page up) or back (Page down) one page in the Electronic Program Guide (if supported).

\* Requires special remote settings. See "Setting up your remote to control other audio/video devices" on page 30.

**Remote control – cont.**



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

You will see one of two symbols below this 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
Red (Record)                  A                  B                  C	<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>
Red                  Green                  Yellow                  Blue	<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 30.

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

Your remote can be set up to control other audio devices such as a TV, VCR, DVR 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 31.**
- **If you want to verify the device code you have entered for an audio device, see “Verifying an entered device code” on page 33.**
- **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.

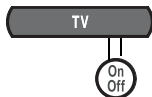
♪ **Note:** The remote status LED flashes rapidly eight times if you press an invalid key, or enter an unavailable device code. Wait seven seconds for the error to clear and start again.

### 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 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 31.



♪ **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 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” on page 31.

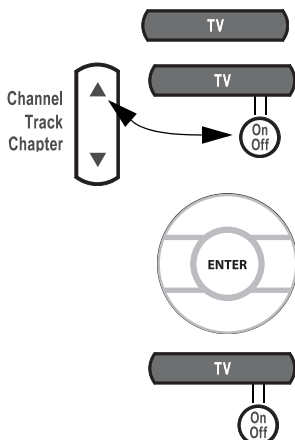
**To set up the remote to control your VCR or DVR (such as Tivo or Replay TV brands)**

1. Turn on both the 3•2•1 system and your VCR or DVR.
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/DVR. 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 DVR and press the **AUX On-Off** button. If your VCR or DVR 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 31.

**Searching for a device code**

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

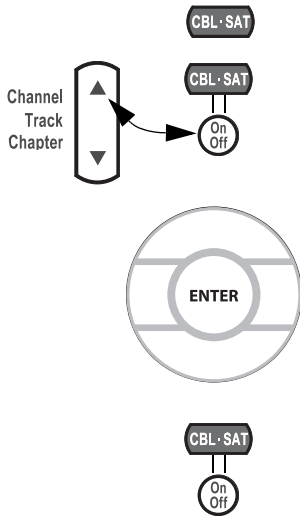
**Note:** *This is a very time-consuming process. Use it as a last resort.*

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

1. Turn on both the 3•2•1 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 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.

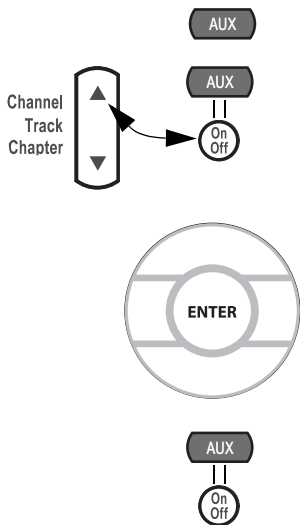


4. Press **Enter**. Check that the remote LED turns off.

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 DVR (for example, TiVo or Replay TV)**

1. Turn on both the 3•2•1 system and your VCR/DVR.
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/DVR turns off.



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

5. Point the remote at your VCR/DVR and press **AUX On-Off**. If your VCR/DVR 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 audio 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.

## The media center

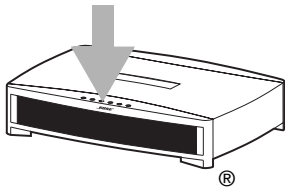
The media center has a control panel on the top, a display area to show the current status of the system, and a disc tray that opens on the front of the console.

### Control panel

The media center has six buttons located on the top control panel. Their functions are also available through use of the remote control.

**Figure 21**

Media center controls



**On-Off**



Turns system power on or off.

**Source**



Steps through the available source selections.

**- Volume +**



Lowers or raises the volume level.

**Enter**



- Used to navigate through menus.
- Sets next available AM/FM preset

**Eject**



Opens or closes the disc tray.

**Note:** If you selected 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 music 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**

Sample media center display



Lights to indicate disc is in play.

Lights briefly when a remote control command is received.

Lights to indicate shuffle mode is selected for the current disc.

Lights to indicate repeat mode is selected for current track or disc.

Lights to indicate "Repeat Disc" or "Shuffle Repeat Disc" mode is selected.

Lights to indicate "Repeat Track" mode is selected.

## 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 the system on to a source:

- Press **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 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 30.

## 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 video output of the 3•2•1 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’s owner’s guide.
- Be sure that you play the 3•2•1 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. On the 3•2•1 remote, press **CD/DVD** to turn the 3•2•1 system on to the CD/DVD source.
3. On the media center control panel, press **Eject** to open the disc tray.
4. Place the DVD disc in the disc tray.
5. Press **Eject** again to close the tray.

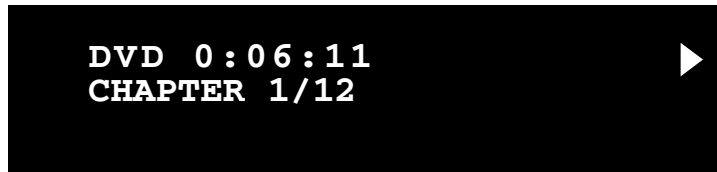
The DVD should begin to play automatically. If not, press **Play** on the 3•2•1 remote.

♪ **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 a DVD video is playing, elapsed play time and chapter number are displayed on the media center front panel.

**Figure 23**

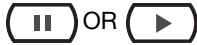
Sample display for a DVD video



### Basic DVD operations



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



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



- Use the stop button (■) to interrupt a movie in play.
  - Press ■ once to interrupt a playing movie. The system holds the movie at the point of interruption. Press **Play** to resume play from the point of interruption.
  - OR
  - Press ■ twice. Play is interrupted and the system returns to the beginning of the disc. Press **Play** to restart the video.



- 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 the repeat function off (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 43.

### Restricting access to video DVDs

The DVD Lock menu allows you to restrict access to video DVDs which may contain inappropriate material for certain members of your family. You can get to the DVD Lock menu by pressing the **System** button on the remote control. This feature allows you to set up password access for movies which have a certain rating. For instructions on using the DVD Lock menu, see “DVD Lock options” on page 51.

## Playing audio CDs



1. On the 3•2•1 remote, press **CD/DVD** to turn the 3•2•1 system on to the CD/DVD source.

**Eject**



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

3. Place the **CD** disc in the disc tray.

**Eject**



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 **■** to stop an 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 the repeat functions off (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 42.

🎵 **Note:** If playing an MP3 CD, the **Info** button displays or clears artist and title information on the media center display panel.

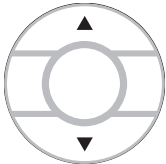
## Listening to FM/AM radio



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.

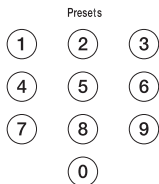
### Tuning to a station

You can tune to a radio station in any of the following ways:



- 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 keypad.

**Note:** For information on changing FM/AM-related source settings, see “FM/AM settings menu” on page 42.

### 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. Store the station with an assigned preset number.
  - For numbers 1-9, press the single number button and hold it. For numbers 10-20, press the first number. Immediately after, press the second number and hold it.
  - OR, press **Enter** on the media center to store the selected station at the next available preset number.

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

**Note:** Assigning a preset number to a station will replace any previous assignment of 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.

### ***Playing other sources***

Turn on any component connected to the media center by using the remote for that component or controls on the component front panel. Use the 3•2•1 Series II or 3•2•1 GS Series II system remote to get started:

- Pressing **TV**, **CBL•SAT**, or **AUX** on the 3•2•1 or 3•2•1 GS system remote turns on the system and selects the audio for that component. Be sure a tape or disc is loaded, as needed.
- Use the **Volume** up or down arrows on the system remote or on the media center to raise or lower the volume of the system.

### ***Using the sleep timer***

Your system includes a sleep timer which can be set to turn your system off automatically after 10 to 90 minutes of listening to any source. This timer can be accessed through the Settings menu for any source. See “Changing Source Settings” on page 40.

 **Note:** *The sleep timer will not turn off the TV or other audio device.*

# CHANGING SOURCE SETTINGS

## 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 24) and on the display panel of your media center (Figure 25).

1. Turn on your TV and select the correct TV input to view your 3•2•1 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 dismiss the Settings menu.



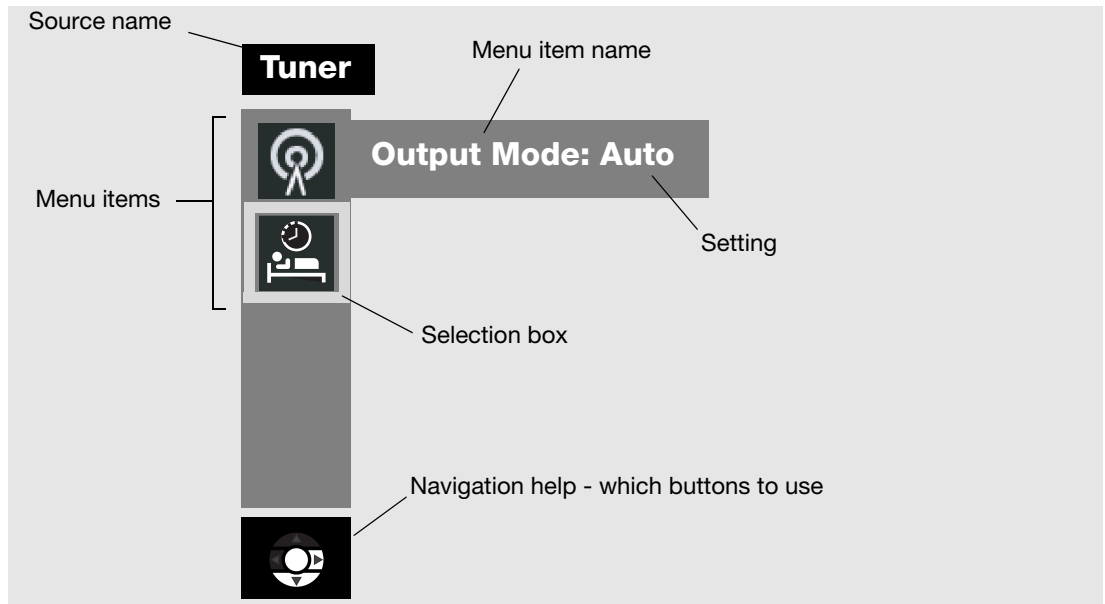
Settings



Exit

**Figure 24**

Sample Settings menu on your TV screen

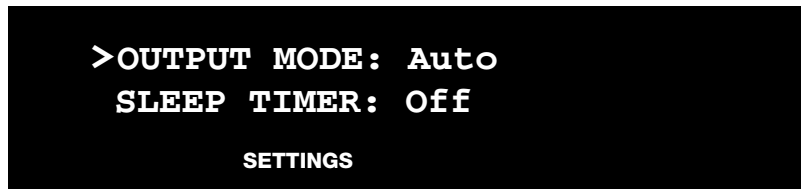


**Note:** Any changes made in the settings menu on your TV screen will also appear in the media center display panel.

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 25**

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 above 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.

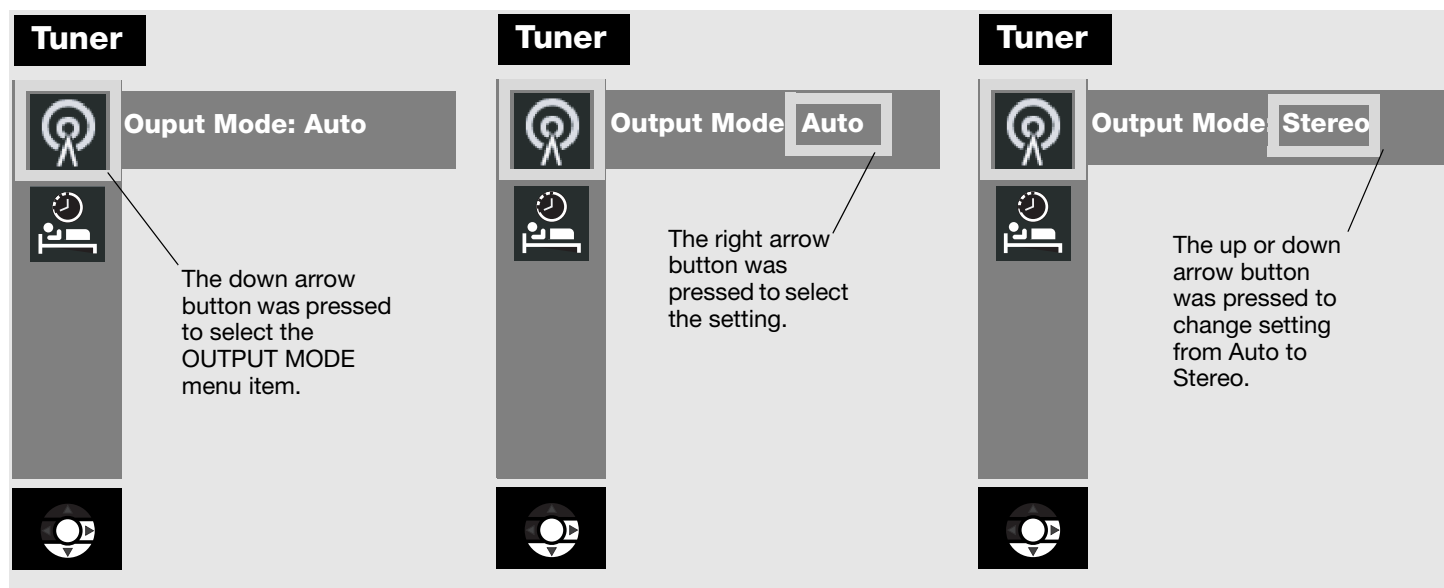
1. Turn on your TV and select the correct TV input to view your 3•2•1 system.
2. Press a source button on your 3•2•1 remote control.
3. Press **Settings** to display the Settings menu for the selected source.
4. Using the down (▼) and up (▲) arrow buttons, select the menu item you want to change.
5. 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 dismiss the Settings menu.



The progression in Figure 26 shows Output Mode for the FM tuner being changed from Auto to Stereo.

**Figure 26**




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).



## 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>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>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.






	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 process mono sound (one-channel audio) for your system.
	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 disc).
	Camera Angle	1 of _____		Allows you to select one of the available camera angles (only if included on 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><b>1.</b> Move backward or forward to the point in the DVD where you want the segment to start.</li> <li><b>2.</b> Press <b>Enter</b>.</li> <li><b>3.</b> Move to the point where you want it to end.</li> <li><b>4.</b> 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 47 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.

	<b>Name</b>	<b>Settings</b>	<b>Default</b>	<b>Description</b>
	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 process mono sound (one-channel audio) for your system.
	Dolby Digital 1+1**	1, 2, Both	1	Plays audio content of selected soundtrack(s). The content of the second soundtrack 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 47 for more information.

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

## 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 view the System menu

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 system.
2. Press the **System** button on your 3•2•1 remote control. The System menu appears with Audio options selected, showing a list of the Audio options that can be changed.

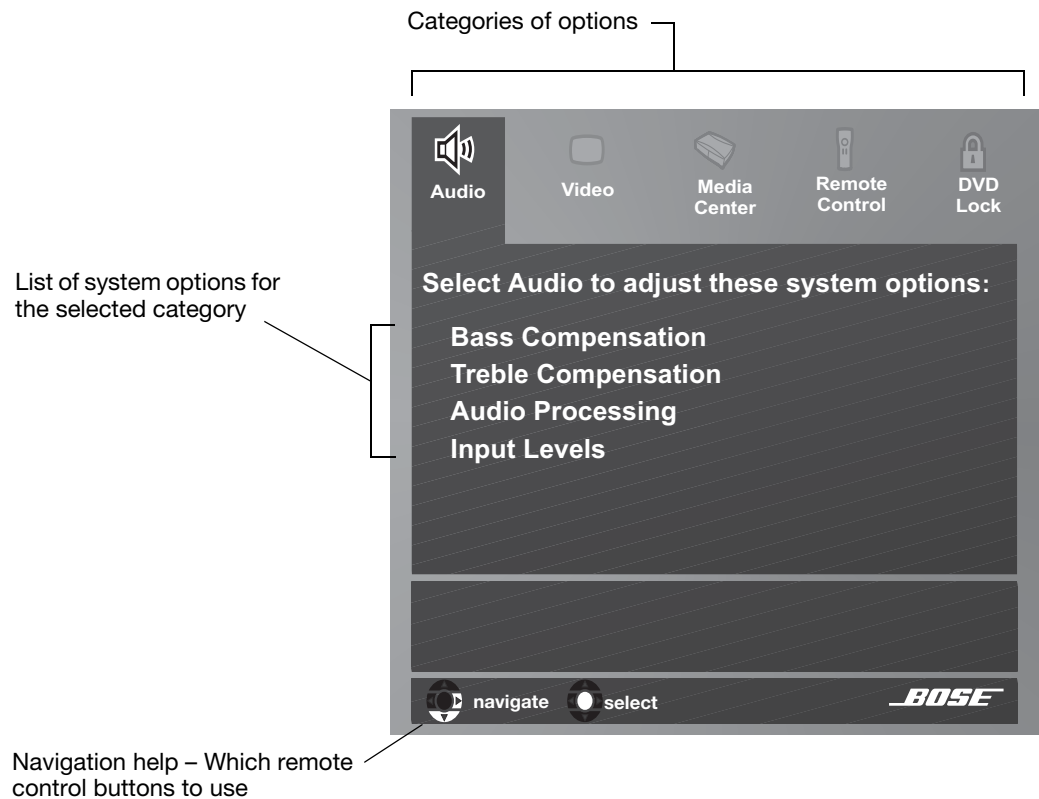


3. Press **Exit** to dismiss the System menu.

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

**Figure 27**

Sample system menu showing audio options



**To change system options**

Changing system options in this menu is similar to changing the settings for a source.

1. Turn on your TV and select the correct TV input to view your 3•2•1 system.
2. Press the **System** button on your 3•2•1 remote control.
3. Using the right (▶) and left (◀) arrow buttons, highlight one of the option categories (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 dismiss the System menu.



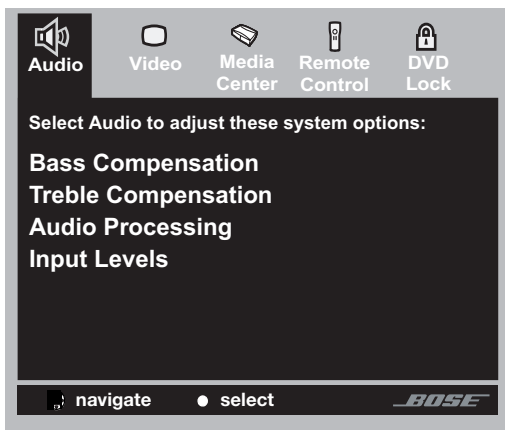
## Audio options

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 28**

Audio system options



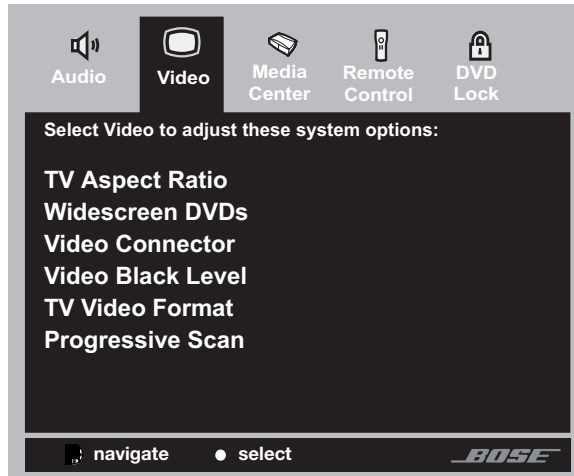
	<b>Settings</b>	<b>Description</b>
<b>Bass Compensation</b>	0 [default] -14 to +14	Normal low-frequency reproduction. Decreased (-) or increased (+) low-frequency reproduction.
<b>Treble Compensation</b>	0 [default] -14 to +14	Normal high-frequency reproduction. Decreased (-) or increased (+) high-frequency 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> <i>You may want to adjust the input levels of external audio devices so they match the system's internal FM and CD levels.</i>

## Video options

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

**Figure 29**

Video system options



	<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>	Modified [default] Unmodified	Modified [default]. Unmodified.
<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 (US 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.

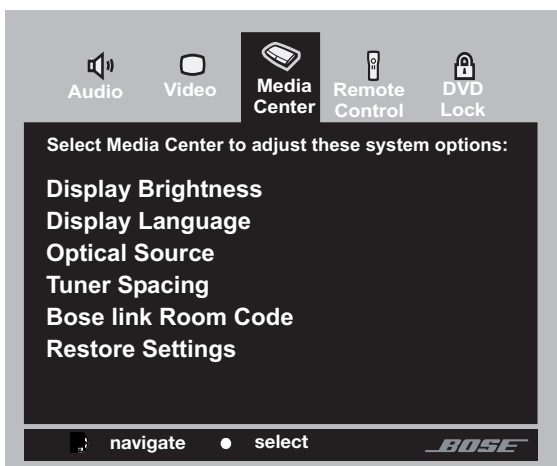


## Media center options

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

**Figure 30**

Media Center system options



	<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>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 Series II 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.

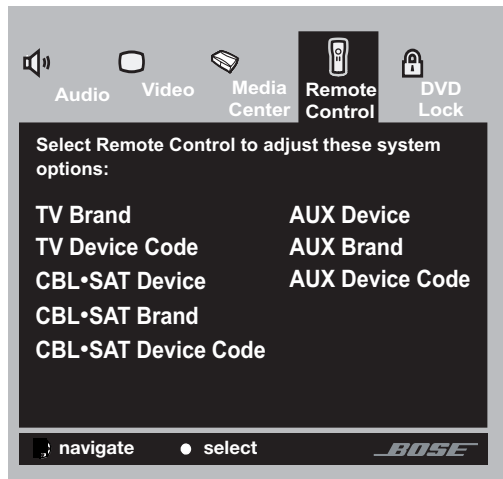
\*Appears only when a Bose link source is connected.

## 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 31**

Remote Control system options



	<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 the device 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 the device connected to the <b>AUX</b> input.
<b>AUX Brand</b>	Brand name	Provides a list of video recorder 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 AUX device or (or video recorder) brand.

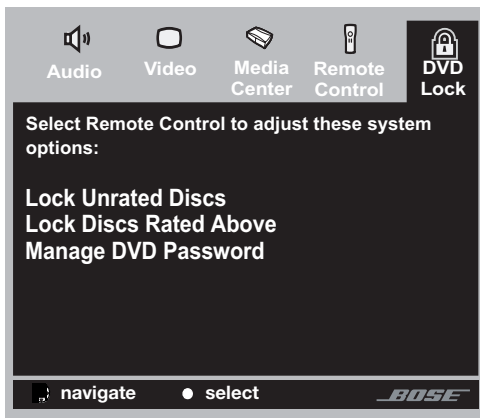
- ♪ **Note:** To find the brand and device codes for each component that can be connected to, and controlled by the 3•2•1 system, see “Device Codes on page A-1.”
- ♪ **Note:** After programming your remote to control external audio/video devices from the System menu, press the System button once to continue 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 32**

DVD Lock system options



	<b>Settings</b>	<b>Description</b>
<b>Lock Unrated Discs</b>	Off On	No restriction applies to unrated DVD movies. Restricts viewing access to unrated titles when password is set.
<b>Lock Discs Rated Above</b>	1 to 8	Helps prevent viewing discs above the selected number when a password is created.
<b>Manage DVD Password</b>	----	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 8 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 52.

1. Turn on your TV and select the correct TV input to view your 3•2•1 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 key.



**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>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**

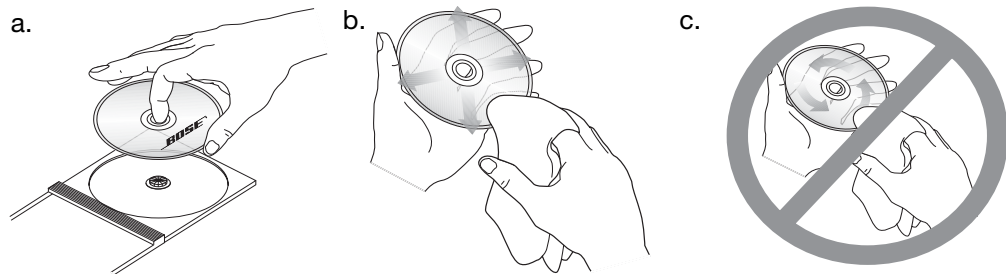
- Clean the surface of your speakers with a soft, damp cloth. You can use an ammonia-free window cleaner on a soft cloth to maintain the finish.
- Do not use any sprays near the speakers. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.
- Do not allow liquids to spill into any openings.
- The speaker grilles require no special care, although you may vacuum them carefully if necessary.

### **Cleaning discs**

- Handle discs by their edges to prevent fingerprints and scratches (Figure 33a).
- 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 33b). Do not use any chemical products; they can damage the disc.
- Do not use a circular motion to clean (Figure 33c).
- 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 33**

Disc care



## Replacing the remote control batteries

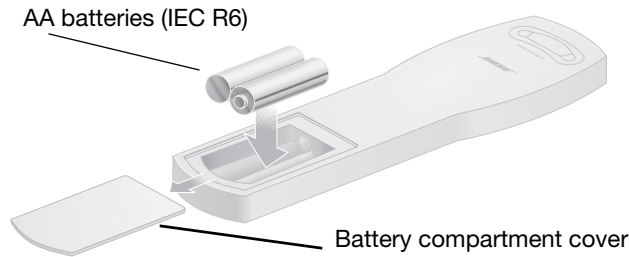


**CAUTION:** Please dispose of used batteries properly, following any local regulations. Do not incinerate.

- Slide open the battery compartment (Figure 34).
- 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 34**

Putting in the batteries



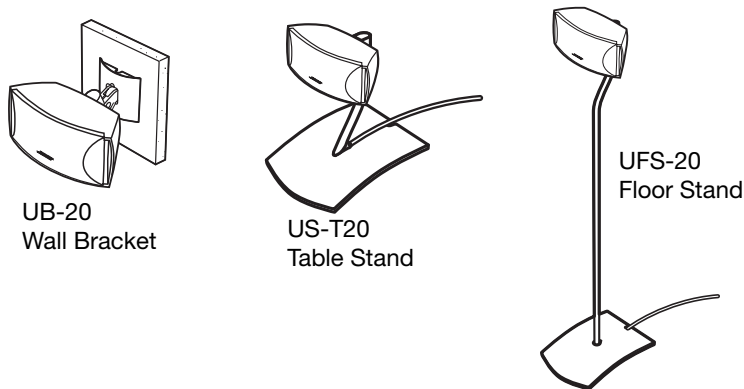
## Accessories

The Bose® 3•2•1 Series II and 3•2•1 GS Series II 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 35). 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 35**

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 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>• 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, to restore communication between the media center and the speakers.</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 a 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>

<b>Problem</b>	<b>What to do</b>
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 54.</li> <li>• Point the remote control at the media center.</li> </ul>
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>• AM antenna must be upright.</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 CD/DVD 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 53.</li> <li>• The disc may be defective. Try another disc.</li> <li>• Make sure region codes for both the DVD and player match. See “Check for region code compatibility” page 6.</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 47.</li> </ul>
You forgot your password	<ul style="list-style-type: none"> <li>• Enter the password 2673 to access the parental controls and create a new password.</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: 3<sup>1</sup>/<sub>4</sub>"H x 13<sup>3</sup>/<sub>4</sub>"W x 10"D  
(8.3 cm x 34.9 cm x 25.4 cm)

Remote control: 1<sup>1</sup>/<sub>8</sub>"H x 2<sup>1</sup>/<sub>2</sub>"W x 9"D  
(3.0 cm x 6.5 cm x 22.9 cm)

3•2•1 speakers: 3<sup>1</sup>/<sub>2</sub>"H x 7<sup>7</sup>/<sub>8</sub>"W x 5<sup>1</sup>/<sub>4</sub>"D  
(8.7 cm x 19.9 cm x 13.6 cm)

3•2•1 GS speakers: 2<sup>1</sup>/<sub>2</sub>"H x 5<sup>1</sup>/<sub>2</sub>"W x 4"D  
(6.4 cm x 14 cm x 10.5 cm)

Acoustimass module: 14<sup>1</sup>/<sub>2</sub>"H x 8<sup>3</sup>/<sub>4</sub>"W x 19<sup>1</sup>/<sub>8</sub>"D  
(36.7 cm x 22.2 cm x 48.5 cm)

## **Weights**

Media center: 6.7 lb (3.0 kg)

3•2•1 speakers: 2.7 lb (1.2 kg) each

GS speakers: 1 lb (.45 kg) each

Acoustimass module: 23.3 lb (10.6 kg)

## **Finish**

Media center: polymer

Speakers: polymer

Acoustimass module: polymer

# DEVICE CODES

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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-18</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	Ardem.....	0037, 0486, 0556, 0633, 0714	Broksonic .....	0003, 0180, 0236, 0463
Abex.....	0032	Aristona.....	0037, 0556	Bush .....	0037, 0208, 0217, 0282, 0486, 0556, 0661, 0698, 0714, 1037
Addison .....	0092, 0108, 0653, 1150	ART.....	1037	Caihong.....	0817
Admiral.....	0093, 0463	Astra.....	0037	Cailing.....	0748
Advent.....	0761, 0783, 0815, 0817, 0842	Asuka.....	0217	Candle .....	0030, 0046, 0056, 0186
Adventura.....	0046	ATD.....	0698	Carad.....	0037, 1037
Adyson .....	0032, 0217	Atlantic .....	0001	Carena .....	0037
AEA .....	0037	Audinac .....	0180	Carnivale.....	0030
AEG.....	0606	Audiosonic.....	0037, 0217, 0370, 0486, 0714	Carver .....	0054, 0170
Agashi .....	0217	Audioton .....	0217, 0486	Cascade .....	0037
Aiko .....	0037, 0092, 0217	Audiovox .....	0003, 0092, 0180, 0451, 0623, 0802, 0875	Casio .....	0037
Aim.....	0208, 0606, 0706	Autovox .....	0217	Cathay .....	0037
Aiwa.....	0701, 1180	Aventura .....	0171	CCE .....	0037, 0217
Akai .....	1537, 0812, 0745, 0714, 0708, 0706, 0702, 0698, 0672, 0631, 0606, 0602, 0556, 0548, 0480, 0217, 0208, 0178, 0060, 0037, 0030	Awa.....	0037, 0108, 0157, 0217, 0512, 0606, 0698	Celebrity .....	0000
Akiba .....	0037, 0282	Axxon .....	0714	Celera .....	0765
Akira .....	0037, 0556	Baile.....	0001, 0661	Celestial.....	0767
Akito.....	0037	Baird.....	0208, 0217	Centrex.....	0698, 0780
Akura.....	0037, 0282, 0714, 1037	Bang & Olufsen .....	0565	Centrum.....	1037
Alaron .....	0179	Baosheng.....	0817	Centurion.....	0037
Alba .....	0037, 0443, 0714, 1037	Basic Line.....	0037, 0217, 0282, 0556, 1037, 1163	CGE.....	0370
Albatron.....	0700, 0843	Baur.....	0037, 0146, 0512	CGM.....	1037
Alfide .....	0672	Baysonic.....	0180	Changcheng.....	0001, 0051, 0661, 0817
Allorgan .....	0217	Bazin.....	0217	Changfei .....	0817
Allstar .....	0037	Beaumarck.....	0178	Changfeng.....	0817
Ambassador.....	0177	Beijing.....	0001, 0208, 0226, 0661, 0812, 0817	Changhai .....	0817
America Action.....	0180	Beko .....	0037, 0370, 0486, 0606, 0714, 1037	Changhong.....	0156, 0508, 0765, 0767, 0783, 0817, 1156
Amplivision.....	0217, 0370	Belcor .....	0019	Chengdu.....	0817
Ampro.....	0751	Bell & Howell .....	0016, 0154	Ching Tai.....	0003, 0092, 0179
Amstrad.....	0037, 0171, 0177, 1037	BenQ .....	1032, 1756	Chun Yun.....	0000, 0003, 0092, 0179, 0180, 0700, 0843, 1150
Anam.....	0003, 0180, 0250, 0628, 0700	Beon .....	0032, 0037	Chung Hsin.....	0053, 0108, 0180, 1150
Anam National.....	0055, 0250, 0650	Best .....	0370	Chunsun .....	0817
Andersson .....	1163	Bestar .....	0037, 0370	Cinema .....	0672
Anex.....	0037	Binatone .....	0217	Cineral .....	0092, 0451
Anhua .....	0051	Black Diamond.....	0556, 0587, 1037	Citizen.....	0030, 0039, 0046, 0056, 0060, 0092, 0186, 0280
Anitech .....	0037, 0282	Blaupunkt .....	0170, 0195	Clairtone .....	0185
Ansonic .....	0370, 0556	Blue Sky .....	0037, 0282, 0556, 0606, 0714, 1037, 1254	Clarion .....	0180
AOC.....	0003, 0018, 0019, 0030, 0052, 0060, 0092, 0093, 0108, 0178, 0179, 0180, 0185, 0451, 0628, 1150	Blue Star.....	0282	Clarivox.....	0037
Apex.....	0156, 0765	Boots.....	0217	Clatronic .....	0037, 0217, 0370, 0556, 0606, 0714
Apex Digital.....	0748, 0765, 0767, 0879, 0890	Boxlight .....	0893	Clayton .....	1037
Arcam.....	0217	BPL.....	0037, 0208, 0282	CMS Hightec.....	0217
Archer.....	0003	Bradford .....	0180	Commercial .....	0047, 1447
		Brandt .....	0335, 0560, 0625, 0714	Solutions .....	
		Brandt Electronique.....	0335	Concerto.....	0056
		Brinkmann .....	0037, 0486	Condor.....	0037, 0282, 0370
		Britannia .....	0217	Conia .....	0754
		Brockwood.....	0019	Conic .....	0032
				Conrac.....	0808

Conrowa.....	0145, 0156, 0698, 1156	Durabrand .....	0003, 0171, 0178, 0180, 0463, 1034, 1463	Fujitsu .....	0037, 0179, 0186, 0217, 0683, 0809, 0853, 1181
Contec.....	0037, 0157, 0180, 0185, 0698	Dwin .....	0093, 0720, 0774	Fujitsu General .....	0217, 0683
Cosmel .....	0037	Dynatron.....	0037	Funai.....	0171, 0179, 0180, 0556, 1271
Craig.....	0180	Ecco .....	0706	Furi.....	0145, 0817
Crosley .....	0054	ECE .....	0037	Future .....	0037
Crown .....	0037, 0039, 0053, 0180, 0208, 0370, 0486, 0606, 0672, 0714	Elbe .....	0217	Futurtech .....	0180
Crown Mustang.....	0672	Electroband .....	0000, 0185	Galaxi.....	0037
Curtis Mathes .....	1347, 1147, 0702, 0466, 0451, 0166, 0154, 0145, 0093, 0060, 0056, 0054, 0051, 0047, 0039, 0030, 0016	Electrograph.....	1755	Galaxis.....	0037, 0370
CXC.....	0180	Electrohome .....	0381	Ganxin .....	0817
D-Vision.....	0037, 0556	Elekta.....	0037, 0282	Gateway .....	1755, 1756
D.Boss.....	0037	Elektra.....	0017, 1661	GE.....	1454, 1447, 1347, 1147, 0625, 0560, 0451, 0335, 0282, 0180, 0178, 0135, 0093, 0092, 0055, 0051, 0047, 0030, 0027, 0021
Daewoo .....	1661, 1150, 0880, 0865, 0706, 0700, 0672, 0661, 0634, 0628, 0623, 0556, 0451, 0217, 0180, 0178, 0170, 0154, 0108, 0092, 0056, 0039, 0037, 0032, 0030, 0019, 0003	Elin.....	0037, 0548	GEC .....	0037, 0217
Dansai .....	0032, 0037, 0208	Emerson .....	0714, 0623, 0486, 0463, 0451, 0370, 0282, 0280, 0236, 0185, 0180, 0179, 0178, 0177, 0171, 0154, 0039, 0038, 0037, 0019	General.....	0186
Dantax.....	0606, 0714	Emperor.....	0282	Genesis.....	0037
Datsura.....	0208	Envision.....	0030, 0813	Gericom.....	0808, 0865
Daytek .....	0037, 0706	Epson .....	0833, 0840, 1122, 1322	Giant.....	0217
Daytron.....	0019	Erres .....	0037	Gibraltar.....	0017, 0019, 0030
Dayu .....	0661	ESA.....	0171, 0812	Gintai .....	1150
De Graaf.....	0208, 0548	ESC .....	0037, 0217	Go Video.....	0886
DEC .....	0556, 0698	Ether .....	0003, 0030	GoldStar .....	0001, 0019, 0030, 0032, 0037, 0039, 0056, 0154, 0178, 0217, 0556, 0606, 0714, 1150
Decca .....	0037, 0217	Etron.....	0001	Goodmans.....	0032, 0037, 0179, 0217, 0335, 0360, 0451, 0480, 0556, 0560, 0634, 0661, 0714, 0808, 1037, 1163
Deitron.....	0037	Eurofeel .....	0217	Gorenje.....	0037, 0370
Dell .....	1080, 1178, 1264, 1454	EuroLine .....	0556	Gradiente.....	0053, 0056, 0170
Denon.....	0145, 0511	Euroman .....	0037, 0217	Graetz.....	0037, 0714
Denstar.....	0628	Europa .....	0037	Granada.....	0037, 0108, 0146, 0208, 0217, 0226, 0548, 0560
Denver.....	0037, 0587, 0606, 1189	Europhon.....	0217	Grandin.....	0037, 0282, 0714, 1037
Desmet.....	0037	Evolution.....	1756	Grundig.....	0037, 0195, 0370, 0443, 0556, 0587, 0672, 0683, 0706
Diamant.....	0037	Exquisit.....	0037	Grunpy.....	0179, 0180
Diamond.....	0037, 0672, 0698, 0706	Fagor.....	0037	H&B .....	0808
Dick Smith Electronics	0698	Feilu.....	0817	Haaz .....	0706
Digatron.....	0037	Feiyue.....	0817	Haier .....	0037, 0508, 0587, 0698, 0768, 1034
Digital Life .....	0780, 0872	Ferguson .....	0037, 0053, 0335, 0443, 0548, 0560, 0625	Haiyan.....	0817
Digitor.....	0037, 0698	Fidelity .....	0037, 0171, 0512	Halifax.....	0217
Digix .....	0880	Filsai .....	0217	Hallmark .....	0178
DiK.....	0037	Finlandia .....	0208, 0548	Hammerstein .....	0060
Dixi .....	0037	Finlux.....	0037, 0179, 0217, 0480, 0556, 0606, 0629, 0631, 0714, 0808	Hampton.....	0217
DL.....	0037, 0780, 0872	Firstar .....	0236	Hankook .....	0019, 0030, 0056, 0178, 0180, 0628
Domeos.....	0037, 1037	Firstline.....	0037, 0208, 0217, 0556, 0587, 0714, 0808, 1037	Hanseatic.....	0037, 0195, 0217, 0282, 0556, 0634, 0661, 0714, 0808
Dream Vision .....	1704	Fisher.....	0047, 0154, 0157, 0159, 0208, 0217, 0370	Hantarex .....	0037, 0865
DSE .....	0698	Flint.....	0037	Hantor.....	0037
Dual .....	0037, 0217	Formenti .....	0037		
Dual Tec.....	0217	Fortress .....	0093		
Dumont .....	0017, 0019	Fraba .....	0037, 0370		
		Friac.....	0037, 0370		
		Frontech .....	0217		

Harley Davidson.....	0179	Interbuy .....	0037, 0512	Kongque.....	0817
Harman/Kardon.....	0054	Interfunk .....	0037, 0512	Konka .....	0037, 0282, 0587, 0628, 0632, 0638, 0703, 0707, 0714, 0754, 0817
Harsper.....	0865	Internal .....	0037	Korpel .....	0037
Harvard.....	0180	Intervision.....	0037, 0217, 0282, 0370, 0486	KTV.....	0030, 0039, 0180, 0185, 0217, 0280
Harwood.....	0032, 0037	IR.....	0032, 0037, 0093, 0108, 0146, 0157, 0195, 0217, 0226, 0370, 0512, 0556	Kunlun .....	0051, 0208, 0226, 0661, 0817
Havermy.....	0093	IRT.....	0451, 0628, 0698, 1661	Kyoshu.....	0032
HCM.....	0037, 0217, 0282, 0606	Isukai.....	0037, 0282	Kyoto .....	0032, 0217
Helios .....	0865	ITC.....	0217	L&S Electronic.....	0714, 0808
Hello Kitty.....	0451	ITT .....	0179, 0208, 0480, 0548	LaSAT .....	0486
Hema.....	0217	ITT Nokia.....	0179, 0208, 0480, 0548, 0606	Lecson.....	0037
Hher.....	0714	ITV .....	0037	Lemair.....	0032
Himitsu .....	0180, 0628	Janeil.....	0046	Lenco.....	0037, 1037
Hinari.....	0037, 0179	JBL .....	0054	Levis Austria.....	0037
Hisawa.....	0282, 0714	JCB.....	0000	Leyco.....	0037
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
Hitachi .....	0217, 0381, 0480, 0481, 0508, 0512, 0548, 0578, 0629, 0634, 0719, 1037, 1045, 1145, 1150, 1156, 1225, 1245, 1256, 0016, 0019, 0027, 0030, 0032, 0037, 0038, 0039, 0056, 0092, 0108, 0145, 0151, 0156, 0157, 0165, 0178, 0179, 0186	Jensen.....	0698, 0706, 0761, 0815, 0817	Liesenk & Tter.....	0037
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Supra.....	0037, 0240, 0278, 0348	Ultravox .....	0278		
Sylvania .....	0000, 0035, 0043, 0081, 0593, 1593, 1781	Unitech .....	0240		
Symphonic .....	0000, 0593, 1593	United.....	0348		
Systemax .....	1972	Universal.....	0209		
T+A.....	0162	Universum .....	0000, 0037, 0081, 0104, 0106, 0209, 0240, 0315, 0348		
Tagar Systems.....	1972	Vector .....	0045		
Taisho .....	0209				
Tandberg .....	0278				
Tandy.....	0000, 0104				
Tashiko .....	0000, 0037, 0048, 0081, 0240				

## DVR

### Digital Video Recorder (DVR)

ABS .....	1972
Alienware .....	1972
CyberPower.....	1972
Dell.....	1972
DirecTV.....	0739
Gateway .....	1972
Howard Computers .....	1972
HP.....	1972
Hughes Network.....	0739
Systems	
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
DirectTV.....	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

Akai.....	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
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 ..... 1175  
 Broadcasting  
 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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