BOSE®

3•2•1 GSX

DVD HOME ENTERTAINMENT SYSTEM

Owner's Guide

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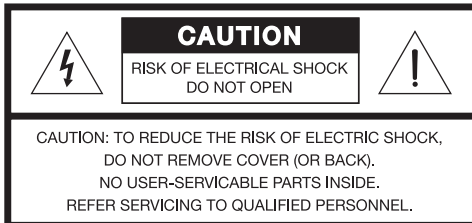5 Favorites   UMUSIC

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.*

⚡	**CAUTION**	⚠
	RISK OF ELECTRICAL SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		

⚡	**AVIS**	⚠
	RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR	
ATTENTION : POUR RÉDUIRE LE RISQUE DE DÉCHARGE ÉLECTRIQUE, NE RETIREZ PAS LE COUVERCLE (OU L'ARRIÈRE). IL NE SE TROUVE À L'INTÉRIEUR AUCUNE PIÈCE POUVANT ÊTRE RÉPARÉE PAR L'USAGER. S'ADRESSER À UN RÉPARATEUR COMPÉTENT.		

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

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

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

⚠ **CAUTION:** *To prevent electric shock, match wide blade of plug to wide slot, insert fully.*

⚠ **CAUTION:** *No naked flame sources, such as lighted candles, should be placed on the apparatus.*

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
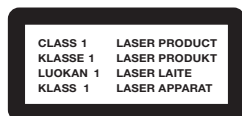
Class 1 laser product

The DVD player within the media center is classified as a CLASS 1 LASER PRODUCT according to EN60825-1:1994 + 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.

Additional safety information

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

CONTENTS

INTRODUCTION 5

SYSTEM SETUP 8

SYSTEM CONTROLS AND INDICATORS 26

Before you begin

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

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

• Quick Setup Guide

• Detailed setup instructions in Setup section of this guide

• Setup DVD

System features

• Integrated AM/FM tuner and DVD/CD player in a small media center

• uMusic™ intelligent playback system for storing and playing your favorite songs

• Small, easy-to-place shelf speakers and an attractive hideaway Acoustimass® module

• Easy-to-use universal infrared remote control

• Media center input jacks for a TV, cable/satellite box or other component such as a DVR

Introducing the uMusic™ intelligent playback system

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

What can you do with this system?

• Store your favorite CDs in a music library. Your system can store approximately 200 hours of music or about 200 CDs.

• Teach the system which tracks your like or dislike, conditioning the system to automatically play the music you want to hear most.

• Discover many ways to enjoy your music.

Checking for region code compatibility

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

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

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

Selecting compatible discs

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

- Video DVD
- 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)

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

Glossary of terms

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SCART – A type of jack commonly found on consumer electronics products manufactured for use 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.

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

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

Limited warranty

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

SYSTEM SETUP

Unpacking

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 (US/Canada)
- 115/230 VAC power cord with adapter (US/Europe)
- 230 VAC power cord (Europe)
- 230 VAC power cord (UK/Singapore)
- 240 VAC power cord (Australia)

Media center

Remote control

Batteries

Gemstone® speaker arrays

Small rubber feet for speaker arrays

Acoustimass® module cable

Speaker cable

Acoustimass module

Large rubber feet for Acoustimass module

AM antenna

Antenna stand

Video cable

FM antenna

Setup disc

Stereo cable

For your records

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

Media center serial number: _____

Acoustimass module serial number: _____

Dealer name: _____

Dealer phone: _____ Purchase date: _____

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

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

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

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

Positioning the media center

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

• Place the media center where nothing obstructs opening the disc tray on its front panel.

• Position the media center close enough to the Acoustimass® module and the speakers so that all the cables will reach.

• Make sure the media center is close enough to additional source devices (TV, VCR or cable box) so that all the cables will reach.

• Make sure that the front of the media center is unobstructed so that it may receive IR (infrared) commands from the remote control.

Figure 2

Sample media center and speaker placement
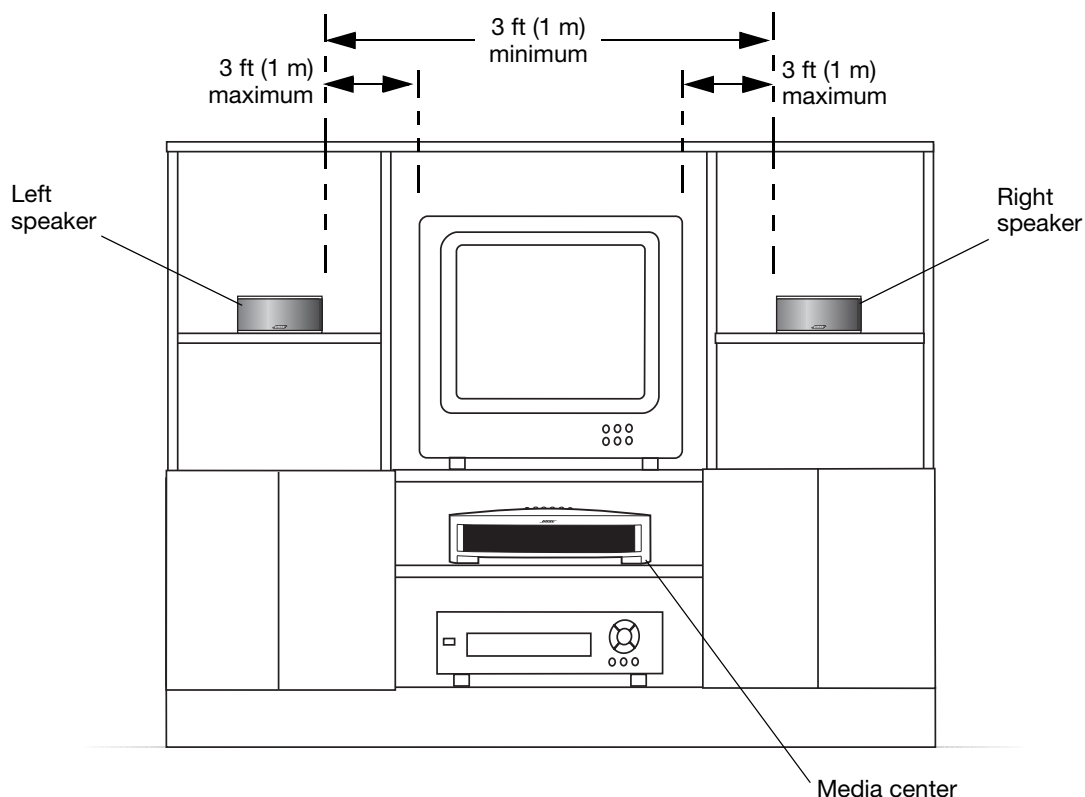
♪ **Note:** *The left and right speakers are magnetically shielded to prevent interference with your TV screen.*

Positioning the speakers

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

- Place the left and right speakers at least **3 feet (1 meter) apart from each other** to optimize the surround sound experience (Figure 3).

- Place each speaker **within 3 feet (1 meter) of the edge of the TV screen.** Placing the speakers more than 3 feet away from the TV can cause the sound to become separated from the picture.

- If you are using a bookshelf or a home entertainment unit, place each speaker at the **front edge** of its shelf. Positioning the speakers too far back in an enclosed space can change the overall quality of sound and alter the movie sound effects.

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

♪ *Note: The speakers can be mounted on Bose brackets, table stands, or floor stands. For ordering information, refer to "Accessories" on page 65. Additional or longer cables may also be ordered.*

Figure 3

Recommended speaker placement

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

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

Positioning the Acoustimass® module

• Place the module at the same end of the room as the TV and the speakers (Figure 4).

• Keep the module at least 3 feet (1 meter) away from the TV to prevent the module from interfering with the TV screen.

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

• Choose a convenient location such as under a table, behind a sofa or chair, or behind drapes, but do not block the port opening.

Figure 4

Recommended Acoustimass module placement

3 ft (1 m)
minimum
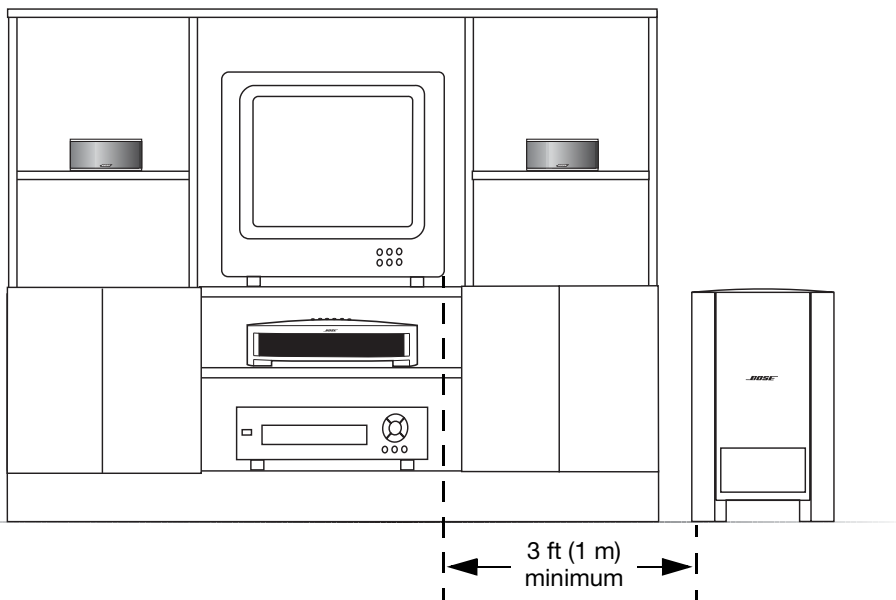
• Attach the large rubber feet to the bottom of each foot on the module. The rubber feet provide increased stability and protection from scratches.

• Aim the port of the module into the room or along the wall. This prevents a blocked port or over-powering bass.

• Stand the Acoustimass module on its feet. Do not lay it on its side or stand it on either end (Figure 5).

Figure 5

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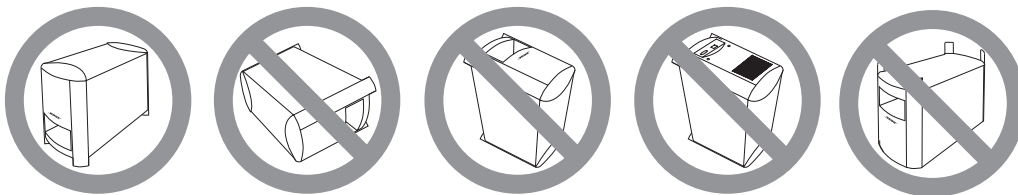
⚠ **CAUTION:** *Do not block the openings on the back of the module, which provide ventilation for the built-in circuitry.*

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

Making system connections

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

Connecting the Acoustimass module to the media center

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

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

Figure 6

Acoustimass module-to-media center connection
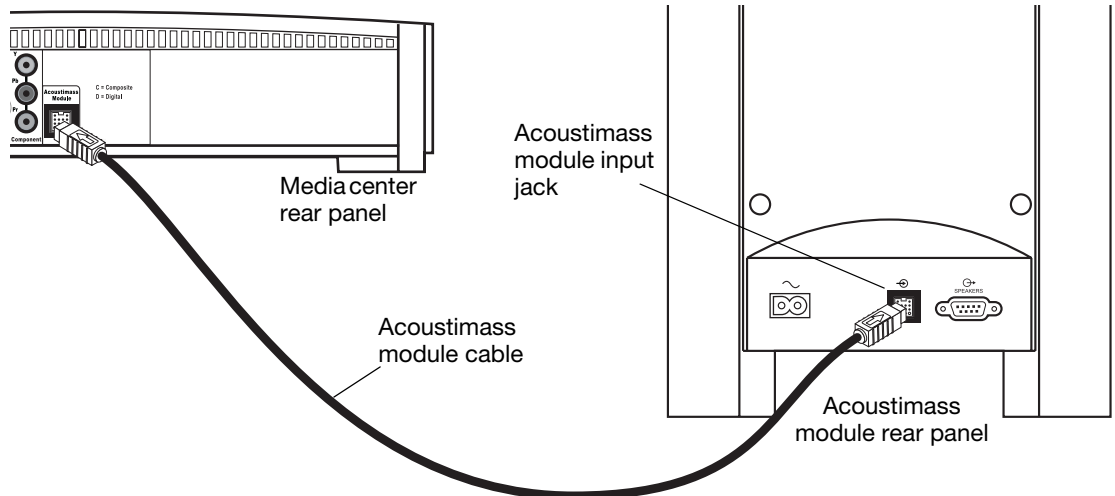
Connecting the speakers to the Acoustimass module

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

Figure 7

Speaker cable-to-Acoustimass module connection
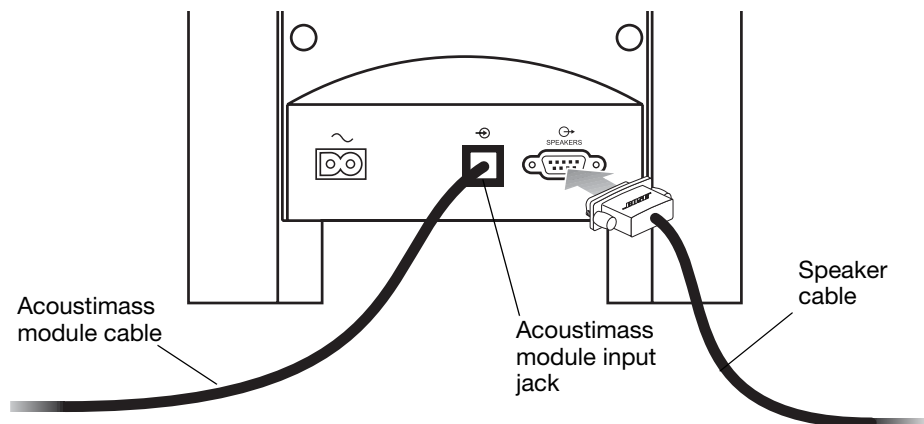
> ♪ **Note:** *If additional audio cables or longer cables are needed to make these connections, contact Bose Customer Service. Refer to the list of offices included in the product carton.*

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

Figure 8

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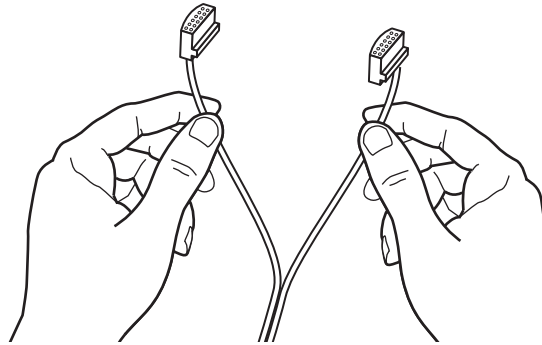
3. Plug the **LEFT** speaker cable into the rear jack of the left speaker (Figure 9). Plug the **RIGHT** speaker cable into the rear jack on the right speaker.

Figure 9

Left and right speaker connections

RIGHT speaker cable

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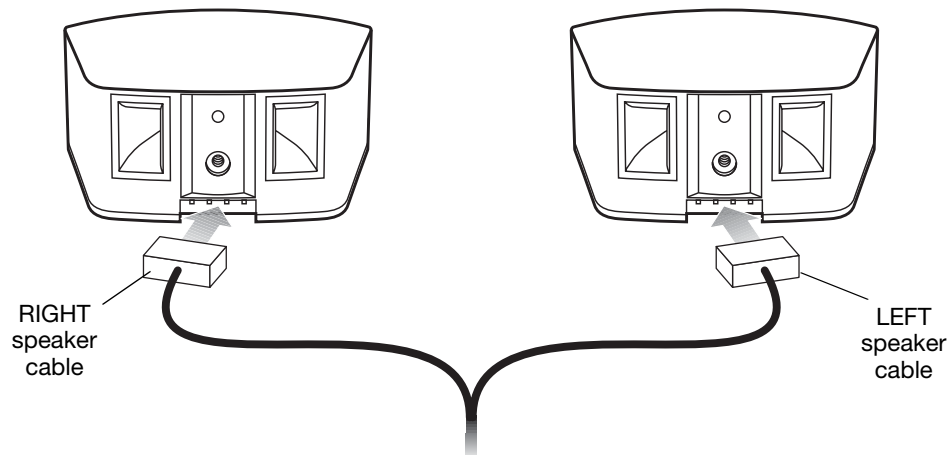
♪ ***Note:*** *Make sure cable connectors are fully inserted and seated firmly in the speaker jacks.*

Connecting the supplied antennas

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

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

Figure 10

Antenna connections

FM dipole antenna

AM loop antenna
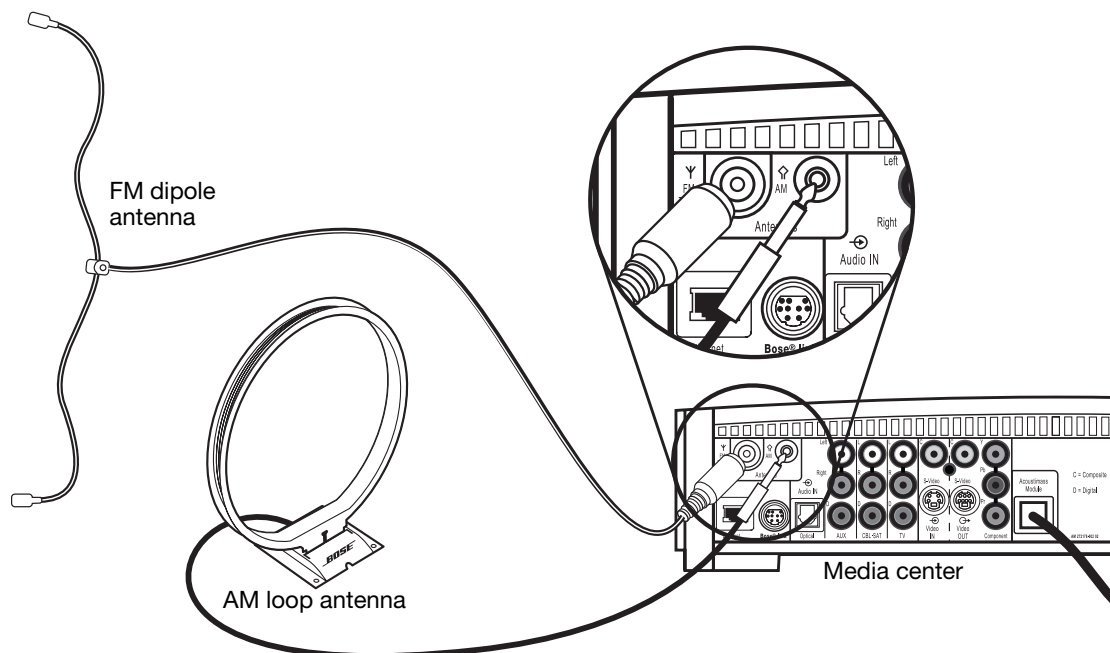
Media center

FM antenna

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

AM antenna

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

Connecting cable FM radio

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

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

Connecting your TV to the media center

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

Making audio connections

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

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

2. Connect the other end of the stereo cable to the audio output jacks on your TV. Insert the white RCA plug into the white **AUDIO OUT L** jack. Insert the red RCA plug into the red **AUDIO OUT R** jack.

Making composite video connections

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

1. Insert one end of the supplied video cable (yellow) to the **Video OUT C** (composite) jack on the back of the media center (Figure 11).

2. Insert the other end of the video cable into one of the video input jacks on your TV.

Figure 11

TV (composite video)-to-media center connections

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

Media center rear panel

Video cable
(yellow connectors)

TV connector panel

Stereo cable
(red and white connectors)
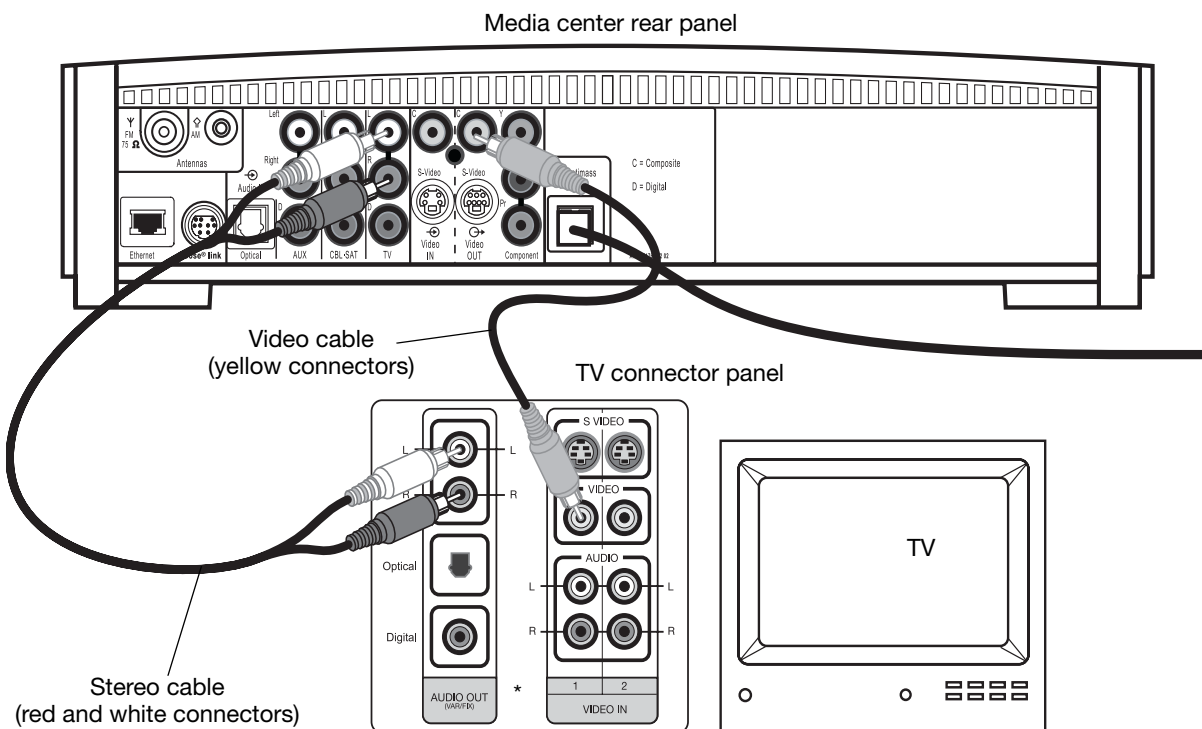
Connecting your TV and VCR to the media center

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

- **Option A:** TV with audio output jacks+VCR

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

Before proceeding, check your TV for audio output jacks.

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

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

1. Connect one end of the supplied stereo cable to the **TV Audio IN** jacks on the rear panel of the media center. Insert the white RCA plug into the **TV** white **L** jack. Insert the red RCA plug into the **TV** red **R** jack.

2. Connect the other end of the stereo cable to the audio output jacks on your TV. Insert the white RCA plug into the white **AUDIO OUT L** jack. Insert the red RCA plug into the red **AUDIO OUT R** jack.

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

Figure 12

Option A connections

Write the name of the video input jack used on your TV in the box on page 25. After you turn the system on, you will need to select this video input on your TV in order to view the 3•2•1 *GSX* system video output.
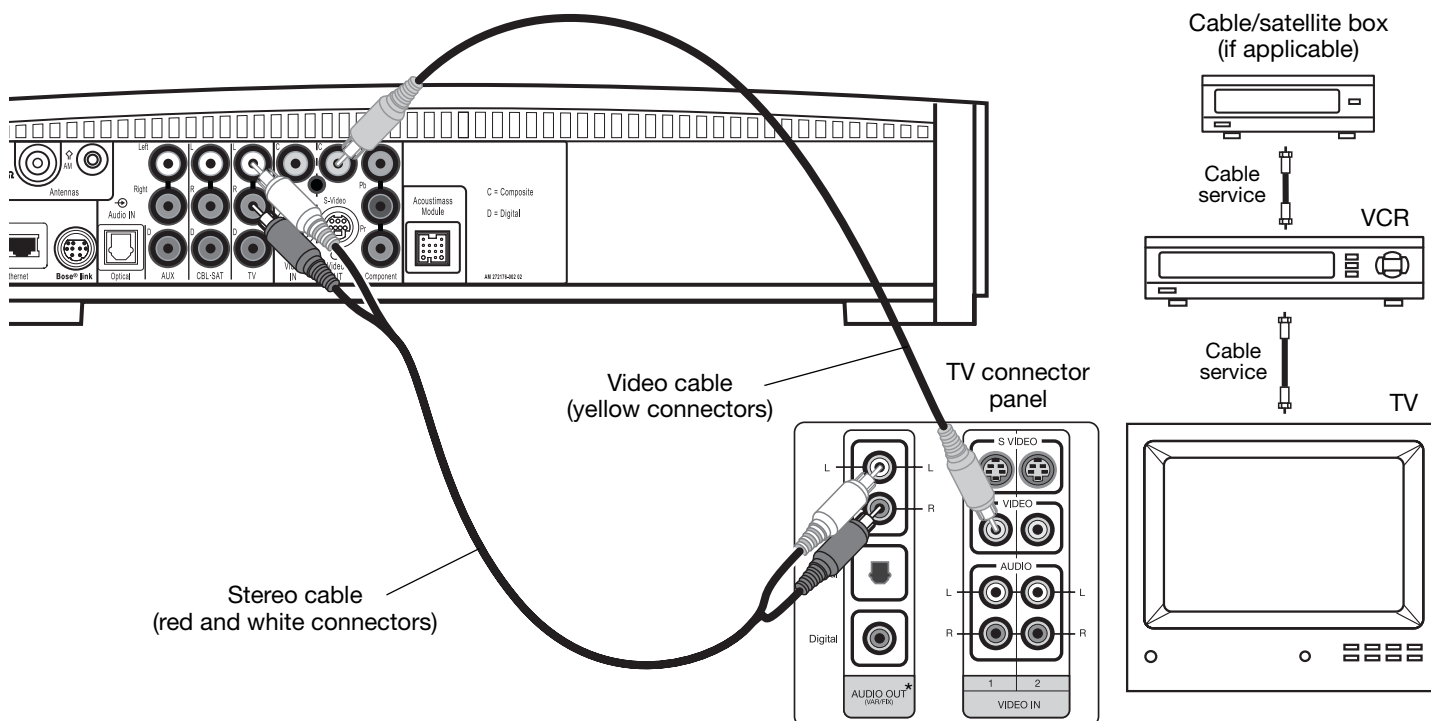
Option B: TV (NO audio output jacks) + VCR + media center

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

1. Connect one end of the supplied stereo cable to the **AUX Audio IN** jacks on the rear panel of the media center (Figure 13). Insert the white RCA plug into the **AUX** white **L** jack. Insert the red RCA plug into the **AUX** red **R** jack.

2. Connect the other end of the stereo cable to the **AUDIO OUT** jacks on your VCR. Insert the white RCA plug into the white **AUDIO OUT L** jack. Insert the red RCA plug into the red **AUDIO OUT R** jack.

3. Insert one end of the supplied video cable (yellow) into the **VIDEO OUT** jack on the back of your VCR. Insert the other end of the cable into the **Video IN C** (composite) jack on the back of the media center.

4. Insert one end of the second video cable (yellow) into the **Video OUT C** (composite) jack on the back of the media center. Insert the other end of the cable into one of the video input jacks on your TV.

Figure 13

Option B connections

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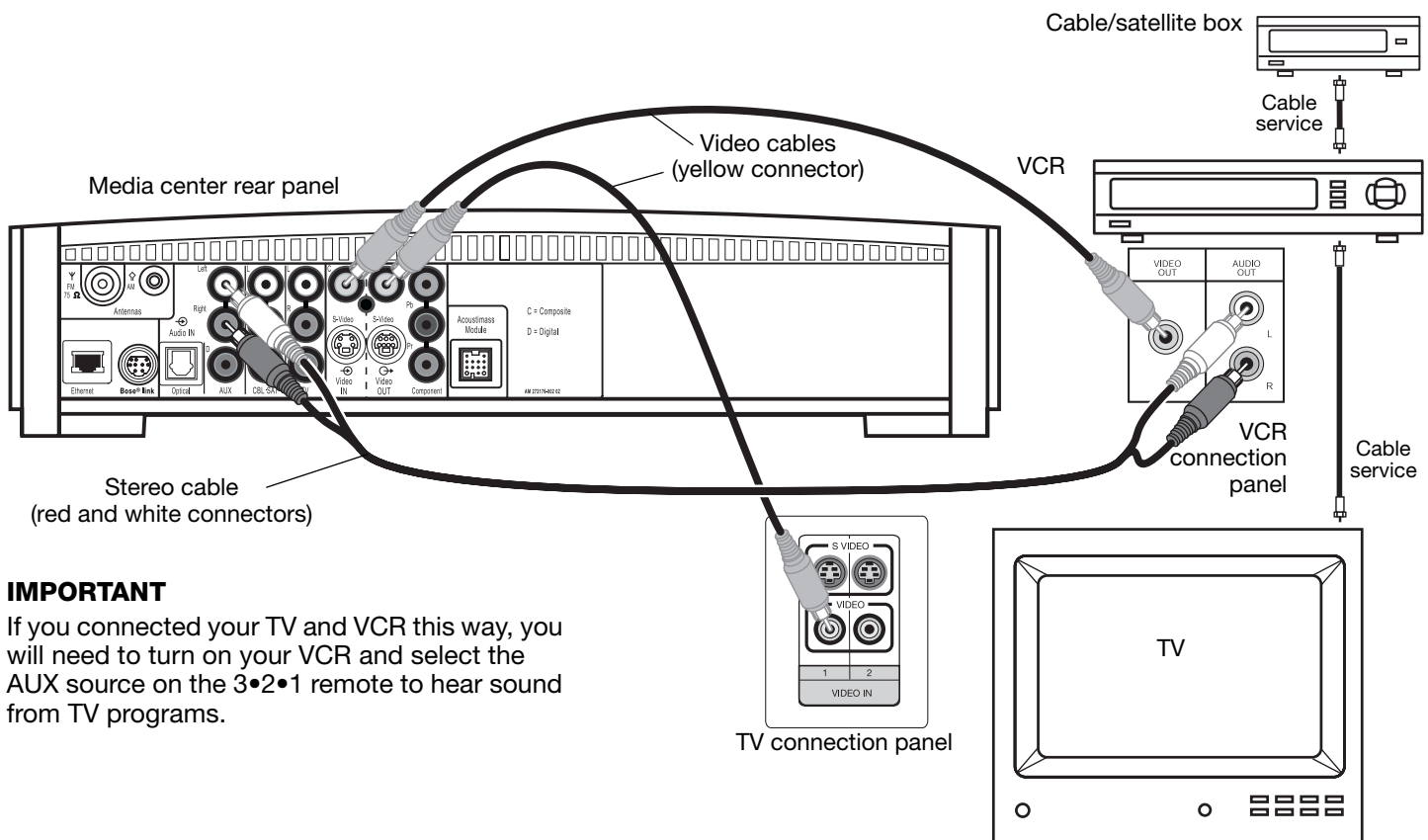
IMPORTANT

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

VCR considerations

• Some combination TV/VCR units may not work with 3•2•1 *GSX* home entertainment systems. Please refer to your TV/VCR owner's manual for information.

• A stereo VCR is required for optimal sound performance. If your VCR has only one audio output, you have a mono VCR. You will need a Y-adapter 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 52) so your 3•2•1 *GSX* system will simulate surround sound effects from a mono source. Otherwise, you will hear mono sound from both speakers.

Advanced setup options

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

Making S-video connections (higher quality video)

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

1. Insert one end of the S-video cable into the **S-Video OUT** jack on the media center (Figure 14).

2. Insert the other end of the S-video cable into the **S-VIDEO IN** jack on your TV.

Figure 14

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

IMPORTANT

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

Media center rear panel

S-video cable

TV connector panel

Stereo cable
(red and white connectors)
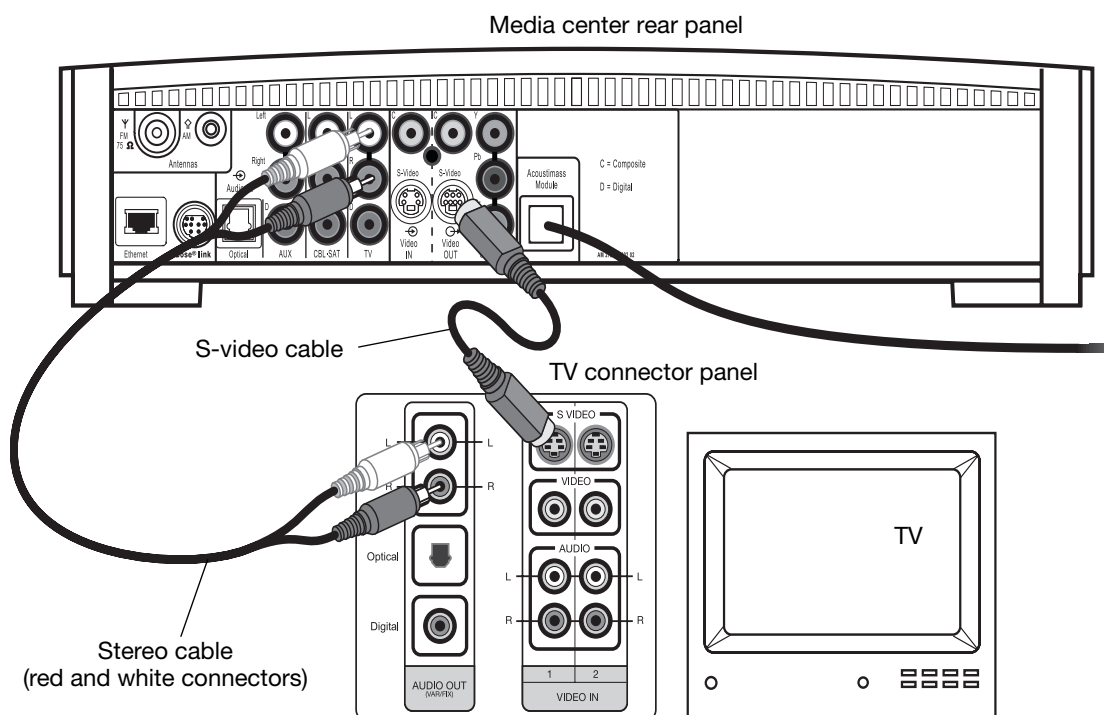
Making component video connections (highest quality video)

♪ **Note:** *Component video connections are required in order to use the progressive scan (NTSC only) feature of your 3•2•1 GSX system. Your TV must also support this feature. To turn on the progressive scan feature, see "Video options" on page 59.*

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

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

1. On the media center rear panel, plug one end of the component video cable into the **Component Y**, **Pb**, and **Pr** video output jacks (Figure 15). Be sure to match the color of the plug with the color of the jack.

2. Plug the other end of the component video cable into the corresponding (color or letter code) component video jack on the back of your TV.

Figure 15

Component video TV-to-media center connections

Component video output jacks: Y (green) Pb (blue) Pr (red)

Media center rear panel

Component video cable

Stereo cable (red and white connectors)

TV connector panel (example)
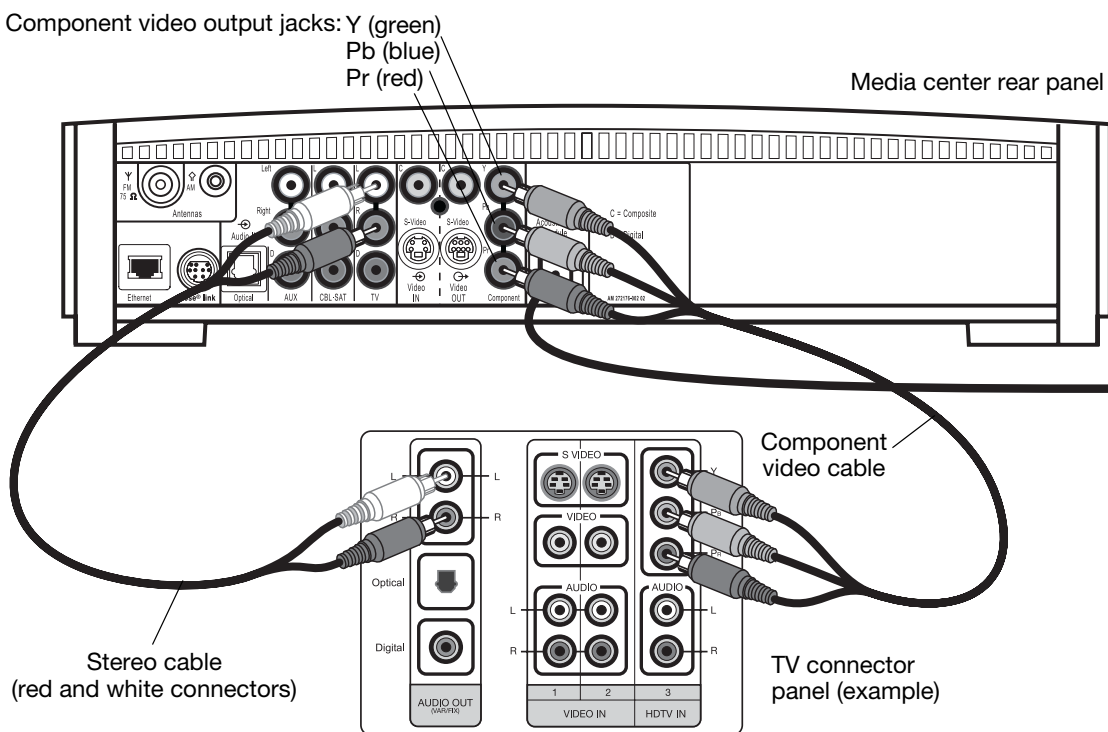
IMPORTANT FOR COMPONENT VIDEO USERS

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

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

Connecting digital audio devices

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

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

♪ **Note:** *Before you can benefit from the optical connection, you will need to assign the optical connector to the audio source in the system settings menu. See "Media center options" on page 60.*

Figure 16

Media center digital audio input jacks

Optical digital
audio input

Coaxial digital
audio inputs
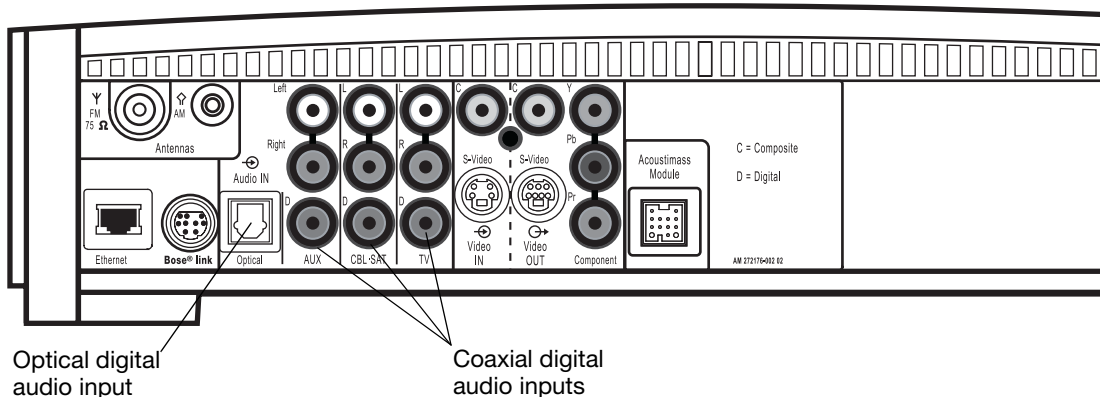
Connecting your cable/satellite box, TV, and VCR to the media center

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

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

• S-video connections are used to deliver the cable/satellite signal to the media center. Therefore, the media center output video is sent to the TV also through an S-video connection.

• Analog and digital coaxial audio connections are shown for the cable/satellite box. As an option, you may use an optical digital connection. However, before you can benefit from the optical connection, you will need to assign the optical connector to the cable/satellite box audio source in the system settings menu. See "Media center options" on page 60.

• When connecting an audio device to the media center jacks, remember to match the red jack to the right channel (R) and the white (or black) jack to the left channel (L).

• For further details on making the video connections between your VCR and TV, refer to the manuals for these video devices.

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

Figure 17

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

For future use only.

Media center

CBL-SAT S-video

Cable/satellite (CBL-SAT) service

Cable/satellite

CBL-SAT analog audio

CBL-SAT digital audio

CBL-SAT signal to VCR

VCR

VCR analog audio

CBL-SAT signal to TV

TV

Media center's S-video output to TV
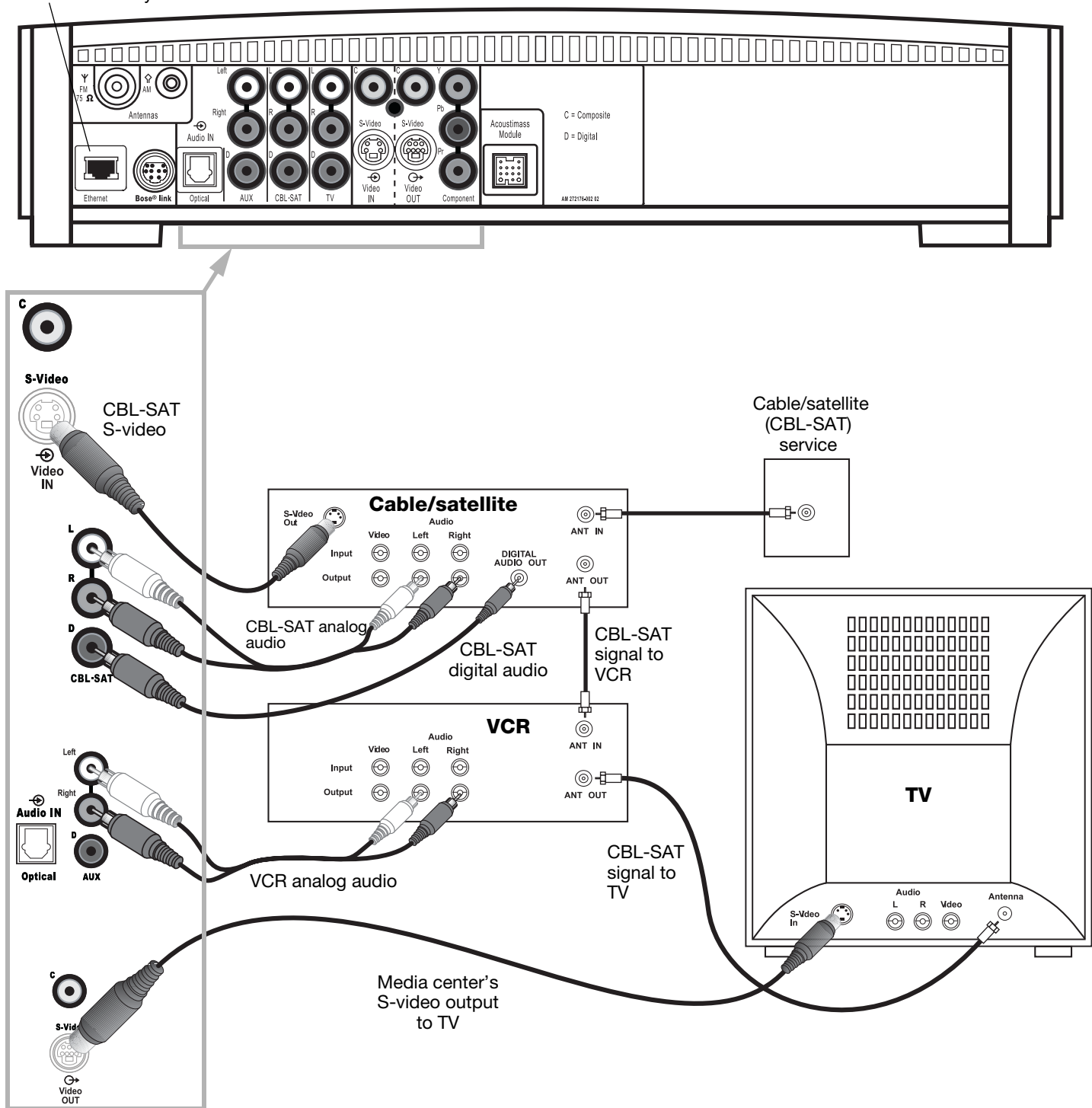
♪ *Note: For more information on advanced connections, refer to the DVD setup disc that came with your 3•2•1 GSX home entertainment system.*

21

English

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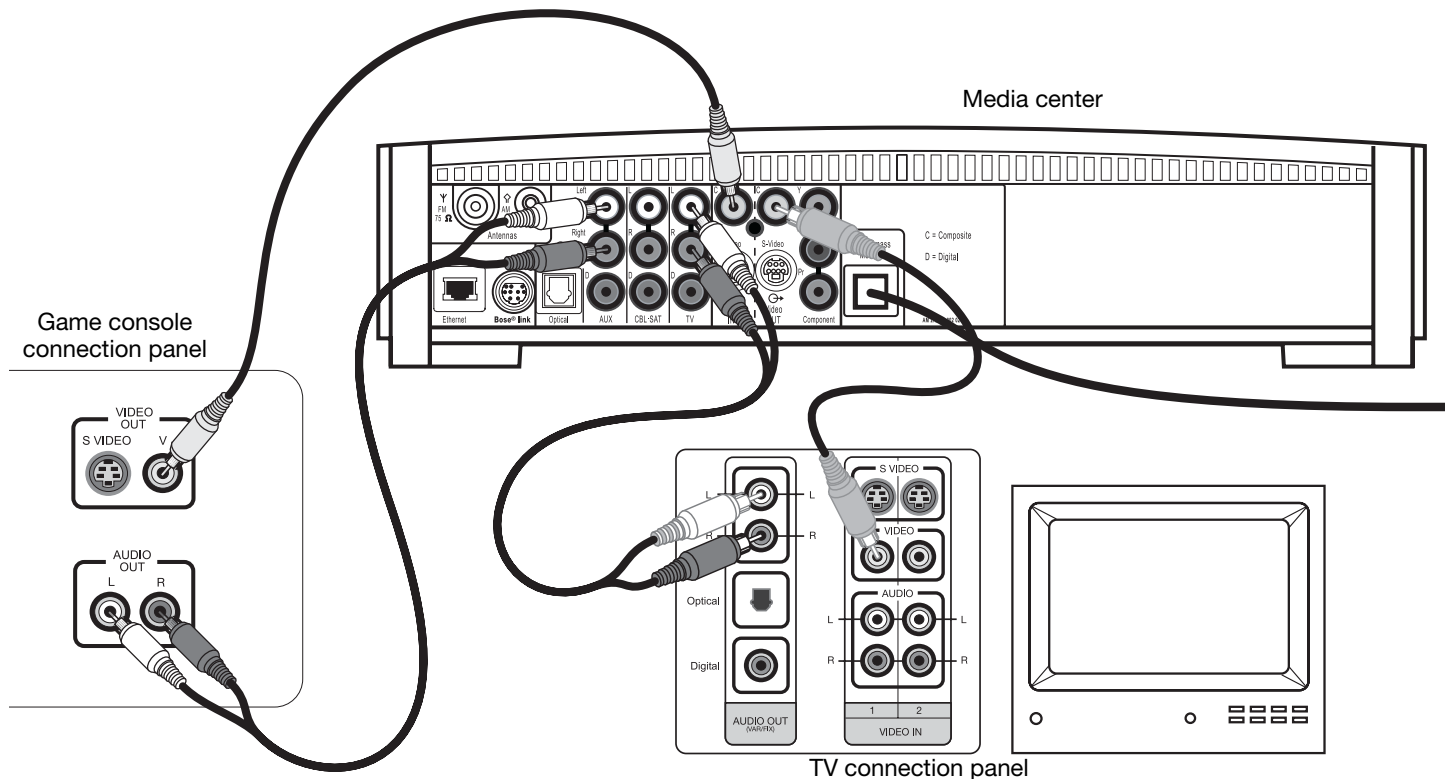
IMPORTANT
If you connected your game console this way, you will need to select the AUX source on the 3•2•1 remote in order to hear sound from the game console.

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

(2) AA batteries (IEC R6)

Battery compartment cover
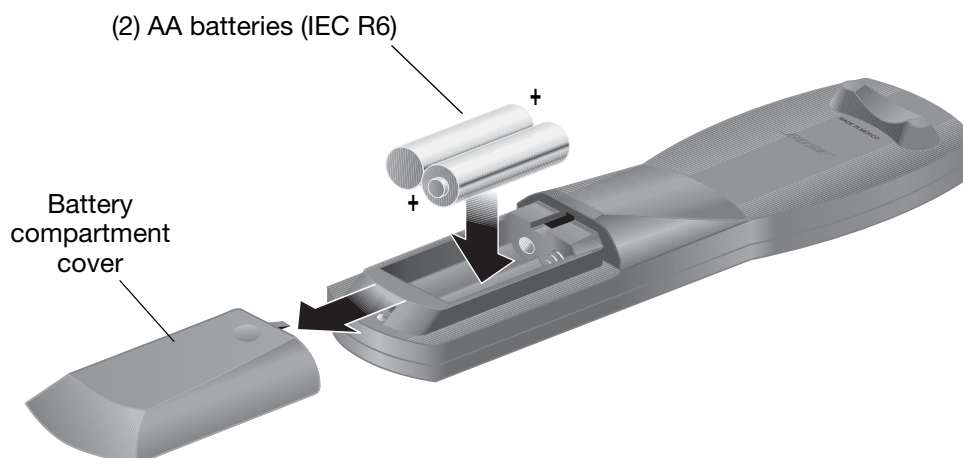
Connecting the power cord

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

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

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

2. Insert the large end of the cord into an AC power (mains) outlet.

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

Figure 20

Connecting to power

AC input jack

AC power switch

115/230V selection switch

Note: Provided only on 220-240V rated systems

220-240V

115V

120-230V

Note: Provided only on 115/230V dual voltage rated systems
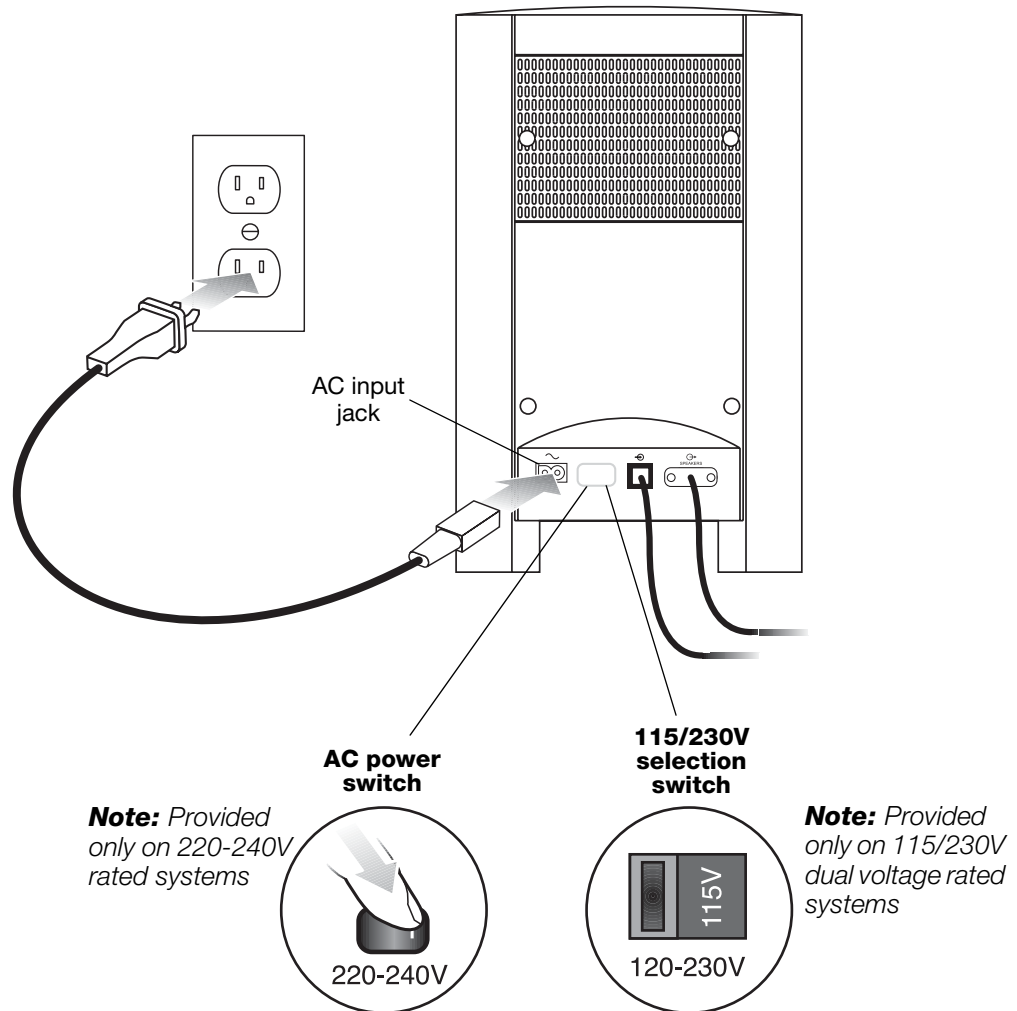
Verifying your system setup

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

5. **Turn on your 3•2•1 *GSX* system.**
    - Point the 3•2•1 *GSX* remote control at the media center and press **On-Off**.

6. **Play the 3•2•1 *GSX* setup DVD.**
    - Press **Eject** on the media center control panel.
    - Insert the DVD setup disc into the disc tray.
    - Press **Eject** again to close the tray. The DVD will automatically begin to play. If it does not, press the play button (▶).

♪ ***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
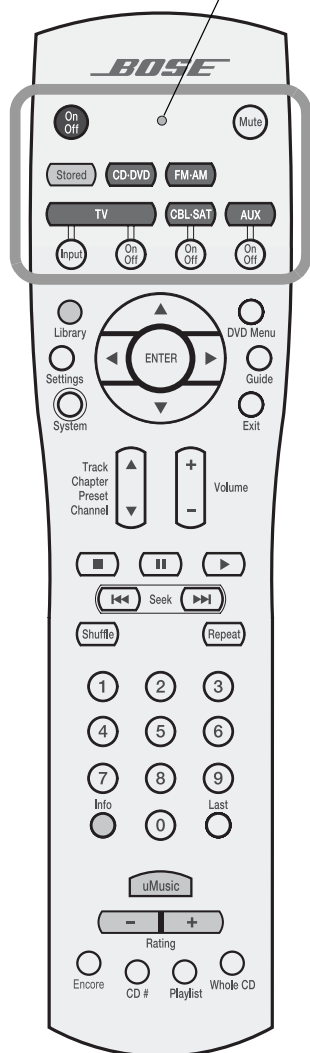
On/Off Turns the system on or off.

Status LED:
- Off (unlit) during normal operation.
- On during the process of setting up the remote to control other equipment such as your TV or VCR.

Mute Silences or restores the sound from the current source.

Stored Selects the Stored CD source and turns the system on to the last-selected uMusic™ intelligent playback system play mode.

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

FM·AM
- 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: Selects the TV sound source and turns your system on.

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: Selects the CBL-SAT sound source and turns your system on.

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

AUX: Selects the AUX sound source and turns your system on.

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

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

Remote control – cont.
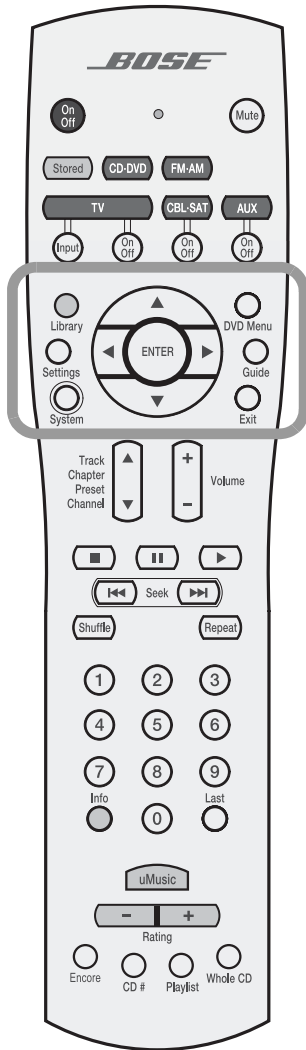
Library

Enters the library of stored CD tracks.

Settings

Displays the Settings menu for the current source on your TV screen or media center display.

System

Displays the System menu on your TV screen.

DVD Menu

- Displays the DVD menu of the currently loaded DVD disc on your TV screen.
- Displays the main menu of a cable/satellite box, VCR, or PVR on your TV screen (if supported).*

Guide

Displays the TV program guide (if supported) on your TV screen.

Exit

- Removes the Settings menu, System menu, or Library menu from your TV screen.
- Removes the TV program guide (if supported) from your TV screen or media center display.
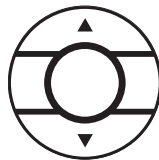
- Tunes the FM or AM radio to the next higher or lower frequency.
- Selects the next item, up or down, in menus.
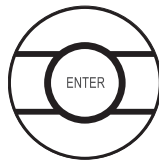
ENTER

Confirms a menu selection or introduces the next level of menu options.
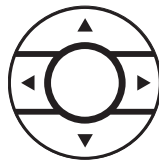
Moves up, down, left, or right in onscreen menus and media center displays.

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

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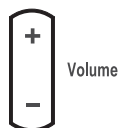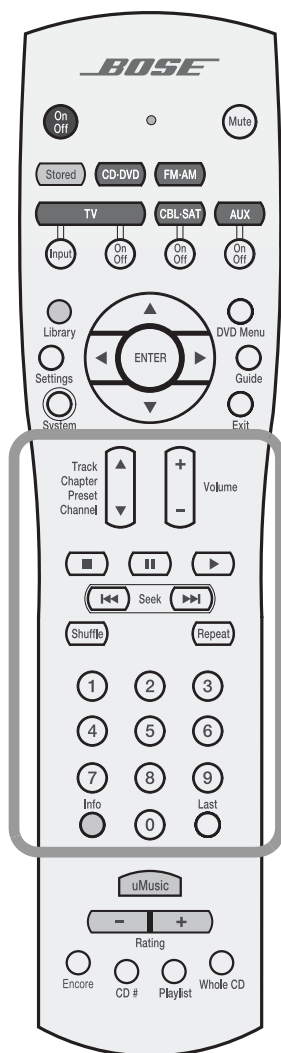
Volume
- Raises or lowers the volume of the current source.
- Pressing **+** restores muted sound from the current source.
- Pressing **–** lowers the volume of the current source, but does not restore muted sound.

Track Chapter Preset Channel
Skips to the next or previous CD track, DVD chapter, radio station preset, or TV channel (if the remote is set up to control your TV).

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

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

▶ Starts the disc player.

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

Shuffle
Plays audio CD tracks in random order. Press again to cancel.

Repeat
Repeats a CD, CD track, DVD chapter, or DVD title depending on the selected source. Press again to change the repeat mode.
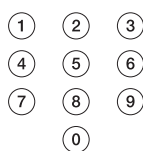
- Selects a CD track, DVD chapter, radio station preset, or TV channel.
- Selects a uMusic preset for the Stored source.
- Allows numerical selection for some menu options.

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

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

Remote control – cont.

uMusic

— +

Rating

Encore

CD #

Playlist

Whole CD
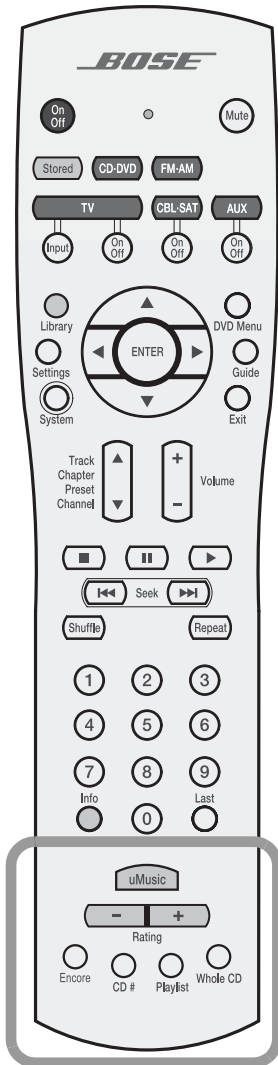
Selects the uMusic™ intelligent playback system for playing stored music. Overrides any other stored music play mode.

- Applies a negative (–) or positive (+) rating to the stored track currently playing.
- Pressing **-** immediately selects a new track.
- Pressing + continues playing the current track.

Selects and plays stored music that most closely matches the style of the current track.

Plays the tracks from a CD selected by its number in the uMusic system.

Plays all the tracks, if any, assigned to the playlist. Can be used with other play mode options, like Encore.

Skips from the track most recently playing to the first track on the CD of origin and plays that CD from beginning to end.

Setting up your remote to control other audio/video devices

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

- **If you know the device code, follow the instructions under the heading, "Direct entry of a device code"** below. Device codes are listed in the back section of this owner's guide and in the System menus under Remote Control options.

- **If you can't find the device code and want to search the system for it, see "Searching for a device code" on page 31.**

- **If you want to verify the device code you have entered for an audio/video 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 *GSX* system and your TV.

2. Press and hold the **TV** button until the remote LED is lit (about five seconds).

3. On the remote keypad, enter the four-digit device code for your TV. The LED will turn off temporarily as you press each key.

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

5. Point the remote at your TV and press the **TV On-Off** button. If your TV does not respond, go back to step 2 and try other codes. If you are still unsuccessful, see "Searching for a device code" on page 31.
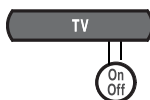
♪ **Note:** *After programming your remote to control external audio/video devices from the System menu, press the System button once to continue navigating the System menu.*

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

1. Turn on both the 3•2•1 *GSX* system and your cable/satellite box.

2. Press and hold the **CBL·SAT** button until the remote LED is lit (about five seconds).

3. On the remote keypad, enter the four-digit device code for your cable/satellite box. The LED will turn off temporarily as you press each key.

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

CBL·SAT

On/Off

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

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

1. Turn on both the 3•2•1 *GSX* system and your VCR or PVR.

AUX

2. Press and hold the **AUX** button until the remote LED is lit (about five seconds).

3. On the remote keypad, enter the four-digit device code for your VCR/PVR. The LED will turn off temporarily as you press each key.

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

AUX

On/Off

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

Searching for a device code

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

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

To set up the remote to control your TV

1. Turn on both the 3•2•1 *GSX* system and your TV.

TV

2. Press and hold **TV** until the remote LED is lit (about five seconds).

Track
Chapter
Preset
Channel

TV

On/Off

3. Alternately press **Channel ▲** and **TV On-Off** until your TV turns off.

ENTER

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

TV
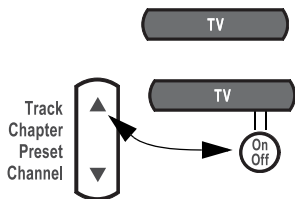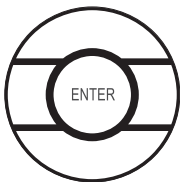
On/Off

5. Point the remote at your TV and press **TV On-Off**. If your TV does not respond, go back to step 2 and try again.
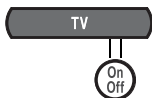
To set up the remote to control your cable/satellite box

1. Turn on both the 3•2•1 *GSX* system and your cable/satellite box.

2. Press and hold **CBL-SAT** until the remote LED is lit (about five seconds).

3. Alternately press **Channel ▲** and **CBL-SAT On-Off** until your cable/satellite box turns off.
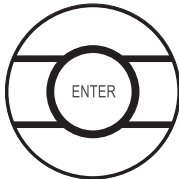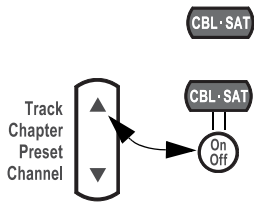
4. Press **Enter.** Check that the remote LED turns off.

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

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

1. Turn on both the 3•2•1 *GSX* system and your VCR/PVR.

2. Press and hold **AUX** until the remote LED is lit (about five seconds).

3. Alternately press **Channel ▲** and **AUX On-Off** until your VCR/PVR turns off.
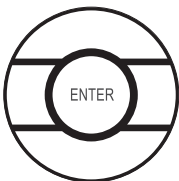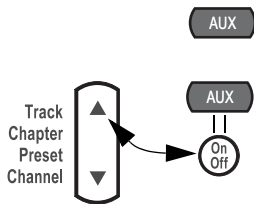
4. Press **Enter.** Check that the remote LED turns off.

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

Verifying an entered device code

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

1. Press and hold a source key (**TV**, **CBL-SAT**, or **AUX**) until the remote LED lights (about five seconds)

Info

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.

Exit

7. Press **Exit.**

Changing channel selection control

If you are using your 3•2•1 *GSX* home entertainment system with other audio/video devices, such as a VCR and cable/satellite box, you may wish to change channels using one of these other audio devices rather than your TV.

You can easily switch your 3•2•1 remote to change channels on another audio device:

Last

1. Press and hold **Last** on the 3•2•1 remote. The remote status LED will illuminate and blink the number of times corresponding to the device controlling channel selection.

> 1 blink = TV
> 2 blinks = CBL-SAT
> 3 blinks = AUX

2. After the blinking stops, press the source button (**TV, CBL-SAT,** or **AUX**) that corresponds to the device you want to use for channel selection.

Exit

3. Press **Exit** on the 3•2•1 remote.

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

Media center

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

Control panel

The media center has six buttons located above the display.

Figure 21

Media center controls
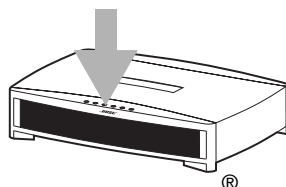
On-Off	**Source**	**– Volume +**		**Store**	**Eject**
Turns system power on or off.	Steps through the available source selections.	Lowers and raises the volume level.		Copies tracks from an audio CD into the music library.	Opens or closes the disc tray.

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

Display indicators

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

Figure 22

Example media center display

CD 0:06
TRACK 1/12

SHUFFLE   REPEAT   DISC   TRACK

Lights to indicate disc is in play.

Lights briefly when a remote control command is received.

Indicates shuffle mode is selected for the current disc.

Indicates repeat mode is selected for current track or disc.

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

Indicates "Repeat Track" mode is selected.

34
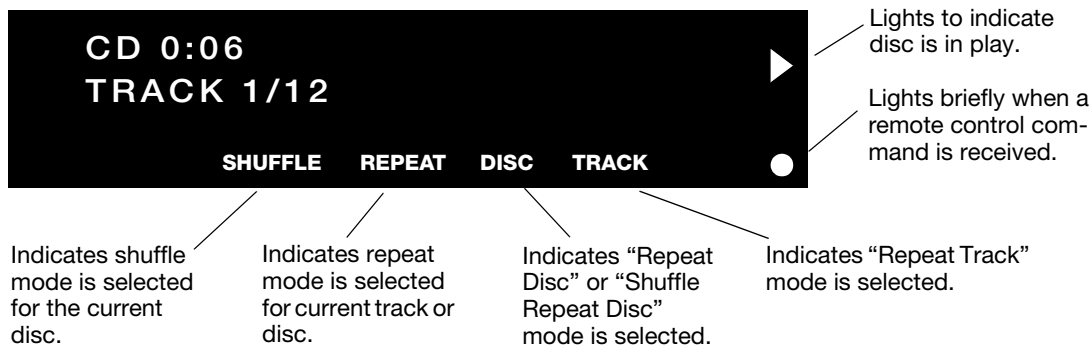
Turning your system on and off

On-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.

Stored CD-DVD FM-AM
TV CBL-SAT AUX
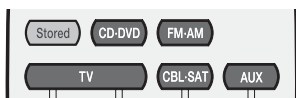
To turn the system on and select a source at the same time:
• Press **Stored, CD-DVD, FM-AM, TV, CBL-SAT,** or **AUX** on the 3•2•1 remote.

♪ **Note:** *Your 3•2•1 remote control can be set up to control other audio/video devices such as your TV, VCR, or cable/satellite receiver. For instructions, see "Setting up your remote to control other audio/video devices" on page 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 the video output of the 3•2•1 *GSX* media center (see "Connecting your TV to the media center" on page 15).

• If you are unable to select the correct video input on your TV, please consult your TV owner's guide.

• Be sure that you play the 3•2•1 *GSX* system setup DVD first. This will help you verify the connections you have made and confirm proper sound performance.

1. Turn on your TV.

2. Select the correct video input on your TV for the 3•2•1 *GSX* system.

CD·DVD

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

Eject

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

5. Place the DVD disc in the disc tray.

Eject

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

▶

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

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

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

Figure 23

Sample display for a DVD video

```
DVD 0:06:11              ▶
CHAPTER 1/12
```
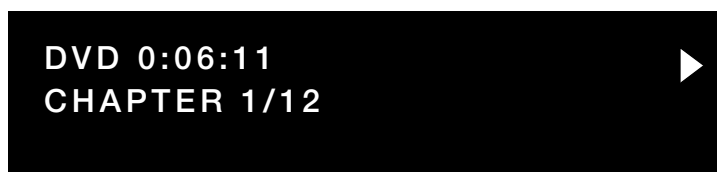
Basic DVD operations

• Press **Pause** to pause a movie.

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

• Press ■ (stop) to interrupt a movie in progress.

   • Press ■ once. The system holds the movie at the point of interruption. Press **Play** to resume 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 DVD.

Track
Chapter
Preset
Channel

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

Repeat

• 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).

Seek

• Press ᴵ◀◀ to scan backward through the current DVD. Press ▶▶ᴵ 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 51.*

Restricting access to video DVDs

The DVD Lock menu allows you to restrict access to DVD content that is inappropriate for certain members of your family. For instructions on using the DVD Lock menu, see "DVD Lock options" on page 62.

Playing audio CDs

CD·DVD

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

II

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

II OR ▶

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

■

• Press ■ to stop a playing audio CD.

Track
Chapter
Preset
Channel
▲ ▼

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

◄◄ Seek ►►

• 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.

Repeat

• 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).

Shuffle

• 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 50.*

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

OPERATION

Listening to FM/AM radio

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

Tuning to a station

Use the following controls to tune to a radio station.

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

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

• Press **Seek** ◄◄ to go to the previous station. Press **Seek** ►► to go to the next available station. Press and hold for rapid tuning. Release to stop at the next available station. To stop anytime, briefly press **Seek** ◄◄ or **Seek** ►►. To begin seeking again without holding down the **Seek** button, briefly press **Seek** ◄◄ or **Seek** ►► as soon as the first seek operation stops.
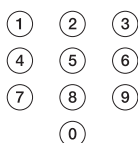
• Press the number of a stored station on the remote.

   OR

• Press **Preset ▲** to select the next stored station. Press **Preset ▼** to select the previous stored station.

♪ **Note:** *For information on changing FM/AM-related source settings, see "FM/AM settings menu" on page 50.*

Storing stations as presets

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

1. Tune to the preferred station.

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

   OR

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

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

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

Erasing a preset

1. Tune to the preset station.

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

Using the uMusic™ intelligent playback system

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

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

Storing CDs

Eject

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

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

3. Place an audio CD in the disc tray.

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

Store

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

- Storing takes about 5 minutes per disc. While a CD is being stored, the media center display (Figure 24) shows you what percentage of the task is completed.

- To interrupt or stop storing at any time, press **Eject.** To resume storing the same disc, close the disc tray and press **Store** again.

Figure 24

Example of media center display while storing a CD

CD   47%   STORED
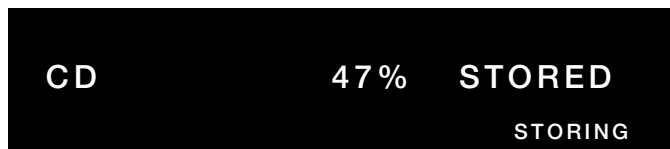
                              STORING

6. After AUDIO CD STORED appears on the media center display, open the disc tray and remove the CD.

7. Repeat these steps for each CD.

Planning time to store your music

- Allow about 5 minutes per CD to copy the tracks.

- Storing 10 discs will take about 1 hour, including the time it takes to insert and remove them.

- After storing a CD, your system needs to process the tracks for efficient storage. If after storing several CDs the media center displays BUSY PROCESSING CDS, you will need to wait and allow the system to complete its process. Turning your system off will allow it to process CDs faster.

- For 10 CDs your system will need about 6 hours of processing time with the system turned off.

- If your CD collection is extensive, you should plan several separate sessions.

OPERATION

Playing stored music

Stored

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

Figure 25

Example media center display of track information

Audio source   Elapsed time   Preset number

STORED 2:06   P1
1 My Songs   UMUSIC

uMusic system preset name   Play mode
(See "To name a preset" on page 44.)

STORED 3:26   P1
Rolling Stones

Artist

STORED 3:26   P1
Wild Horses

Song title

STORED 3:26   P1
TRACK 3/10   CD: 152

Track number   Number of   Number of CD
tracks on CD
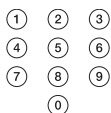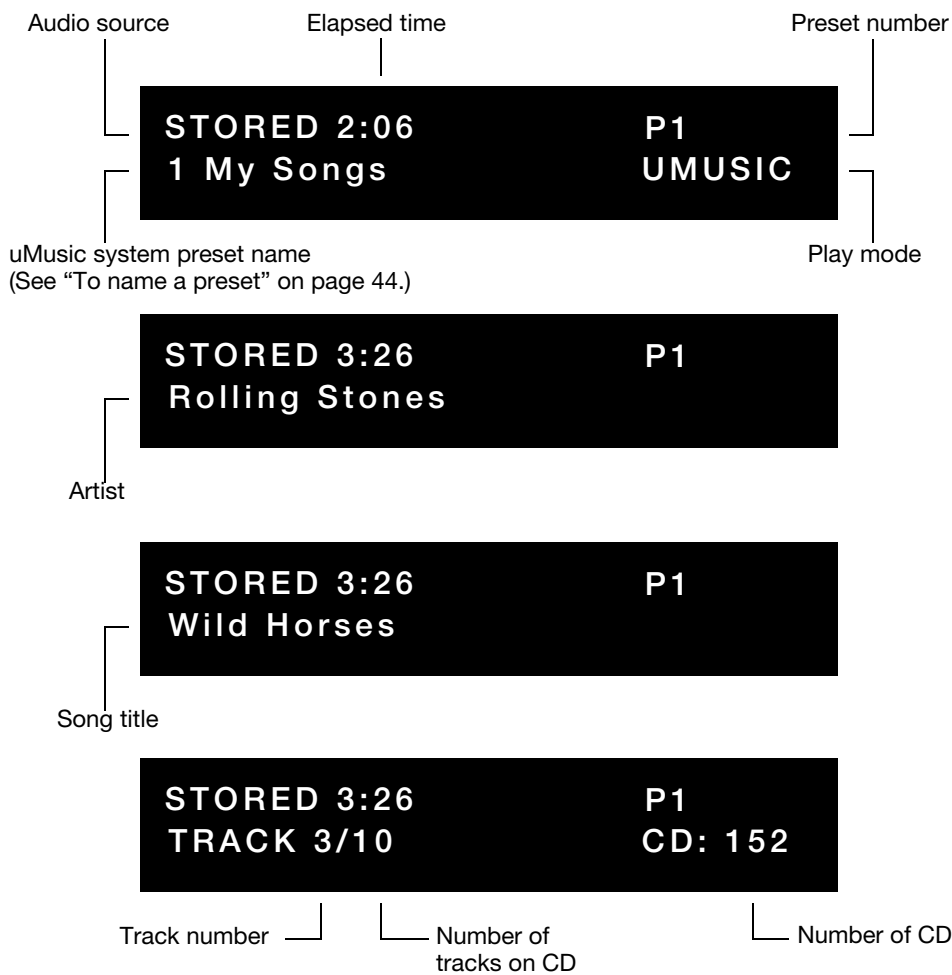
① ② ③
④ ⑤ ⑥   • If you want a different preset, press the corresponding
⑦ ⑧ ⑨   preset number (1 to 9) on the remote.
⓪

❚❚   • Press **Pause** to interrupt the current selection.

❚❚ OR ▶   • Press **Pause** again, or press **Play** to resume playing a paused selection.

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

- Press **Stop** twice. Pressing **Play** will start the selection from the beginning of the track.

Track
Chapter
Preset
Channel

- Press **Track** ▲ to skip to another track.

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

♪ *Note: Pressing* **Track** ▲ *or* **Seek** ▶▶ı *to skip a track registers a negative rating for that track. See "Rating your music" on page 42.*

Seek

- Press **Seek** ▶▶ı once to skip to the next track.

- Within the first 2 seconds of play, press **Seek** ı◀◀ to skip to the previous track.
  After 2 seconds of play, press **Seek** ı◀◀ to skip to the beginning of the current track.

- Press and hold **Seek** ı◀◀ or **Seek** ▶▶ı to scan backward or forward through a track.

Info

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

Figure 26

Example of Info display

Info for track – Almost Blue

Almost Blue/Elvis Costello (3:07)

Genre - Rock / Pop
CD #7

Track 10 of
The Best of Elvis Costello & the Attractions (1985)
by Elvis Costello
Data by All Music Guide ®2004 AEC One Stop Group, Inc.

Preset 1 – My Songs

Track 10 on CD7   Elapsed Time - 00:01 / 03:07

BOSE®

♪ *Note: For information on changing stored music related source settings, see "Stored CD settings menu" on page 50.*

Rating your music

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

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

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

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

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

You can also rate your stored music from within the Music Library. See "Rating stored music in the library display" on page 47.

Stored music play modes

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

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

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

- Press **Playlist** briefly to play the tracks that you have put into your playlist. For more information, see "Using the Playlist" on page 45.

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

Repeat and shuffle functions

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

- Press **Shuffle** to play tracks in a random order. SHUFFLE is displayed on the media center.

- Press **Shuffle** again to turn off the shuffle function.

- Press **Repeat** to repeat a track. REPEAT TRACK is displayed on the media center.

- Press **Repeat** again to repeat the whole CD or playlist. REPEAT DISC is displayed on the media center.

- Press **Repeat** again to turn off the repeat function.

- To repeat a CD and play its tracks in random order, press **Shuffle** and then press **Repeat**. SHUFFLE REPEAT DISC is displayed on the media center.

Deleting stored tracks

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

System

1. Press **System** on the remote control.

2. Select **Stored CDs** and press **Enter.**

3. Select **CD#** and press **Enter.**

ENTER

4. Choose the number of the CD containing the track you want to delete and press **Enter.**

5. Select **Track** and press **Enter.**

6. Choose the name of the track you want to delete and press **Enter.**

7. Select **Track Action** and press **Enter.**

8. Choose **Delete Track** and press **Enter.**

9. After the confirmation, "Do you really want to permanently delete the track from the System," select **Yes** and press **Enter.**

Exit

10. Press **Exit** to leave the System menu.

Using uMusic™ system presets

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

To select a uMusic preset

1. Press **Stored**.

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

Figure 27

Example music center display showing preset number

```
STORED 2:06            P3
TRACK 1/2 5
```

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

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

OPERATION

To name a preset

1. Press **System.**

2. Select **Media Center** options (Figure 28).

Figure 28

System menu – media center options

Media Center

Select Media Center to adjust these system options:

Display Brightness
Display Language
Optical Source
Tuner Spacing
Bose link Room Code
uMusic Presets
Restore Settings

navigate   select   *BOSE*
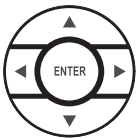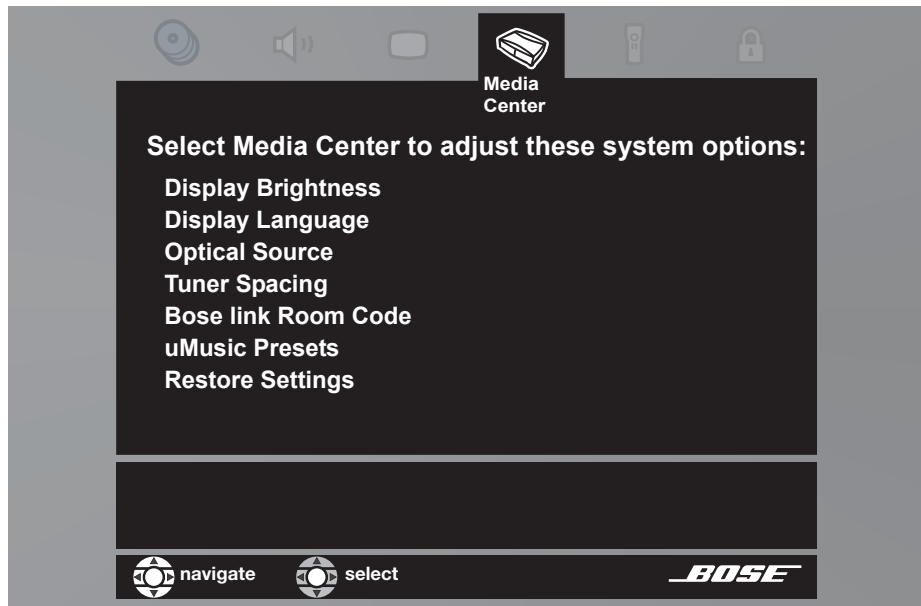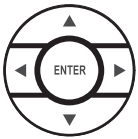
3. Select **uMusic Preset** and press **Enter.**

4. Choose a preset and press **Enter.**

5. Select **uMusic Preset Action** and press **Enter.**

6. Select **Edit Name** and press **Enter.**

7. Using the edit screen, enter a name for the preset. See "Using the Edit Screen" on page 56 for instructions on using the edit screen.

8. Select **Done** at the top right corner of the screen and press **Enter.**

9. Press **Exit** to leave the System menu.

Using the Playlist

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

To add the currently playing song to the playlist

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

Playlist

To listen to the Playlist

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

To repeat a track or play the tracks in random order, see "Repeat and shuffle functions" on page 42.

To remove a track from the Playlist

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

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

1. Press **Library.**

Library

2. Use the navigation buttons to browse through your stored music collection. Refer to "Finding stored music" on page 46.

ENTER

3. Select the track, album, artist, or genre that you want to add.

4. Press and hold **Playlist** until TRACK>>PLAYLIST or ALBUM>>PLAYLIST is displayed on the media center. The Music Library screen on your TV also indicates that a track, or one or more albums have been added to the Playlist.
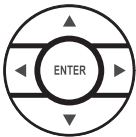
Playlist

To remove all tracks from the Playlist

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

1. Press **System.**

System

2. Select **Media Center** options. Press **Enter.**

ENTER

3. Select **uMusic Preset Action**. Press **Enter.**

4. Select **Clear Playlist**. Press **Enter.**

5. Press **Exit** to leave the System menu.

Exit

OPERATION
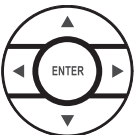
Searching through your music library

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

Finding stored music

Library

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

Figure 29

On-screen Music Library display

Items list

Summary of selections

Music Library	Preset 1
Genre:	- All genres -
Artist:	- All artists -
Album:	- All albums -
Track:	- All tracks -

97 albums / 0 tracks (0 minutes) selected.

Left/Right: narrow selection by genre.
This filters available selections below.

navigate   select   Info details   *BOSE*

Current Preset

Selection

ENTER
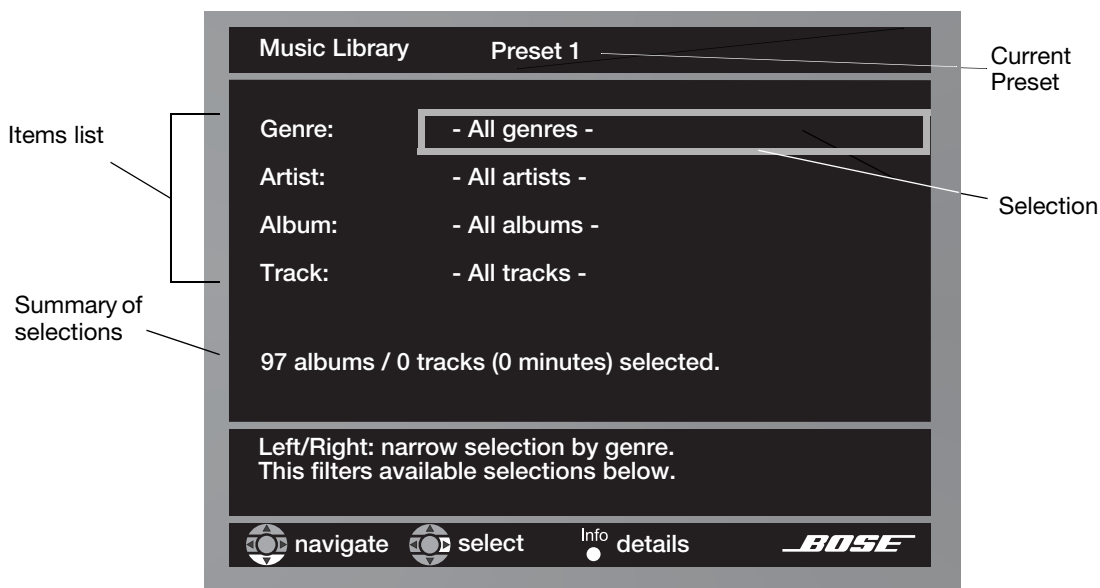
2. Use the navigation buttons on the remote to search for music by Genre, Artist, Album, or Track. Use the up/down arrows to select an item in the list. Use the left/right arrows to change the selection.

3. When you select a track or album you want to hear, press **Enter** to play it. When it is done, the uMusic™ playback system will again start to select songs for you.

4. Press **Exit** to leave the Music Library.

Figure 30

Example of Library information on the media center display

Artist: ↑↓
←   All Artists   →
LIBRARY
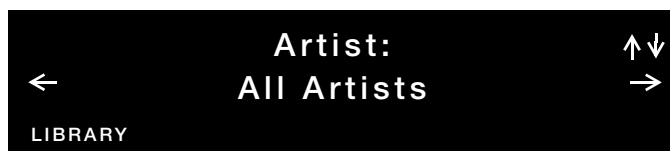
Rating stored music in the library display

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

Figure 31

Example of rating indicator in the music library display

Selection you are rating

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

```
Music Library          Preset 1

Genre:              - All genres -

Artist:             Washington, Grover Jr.

Album:              - All albums -

Track:              + Caught a Torch of Your Love


97 albums / 0 tracks (0 minutes) selected.


1 track rated (+) in Preset 1


navigate    select    Info details    BOSE
```
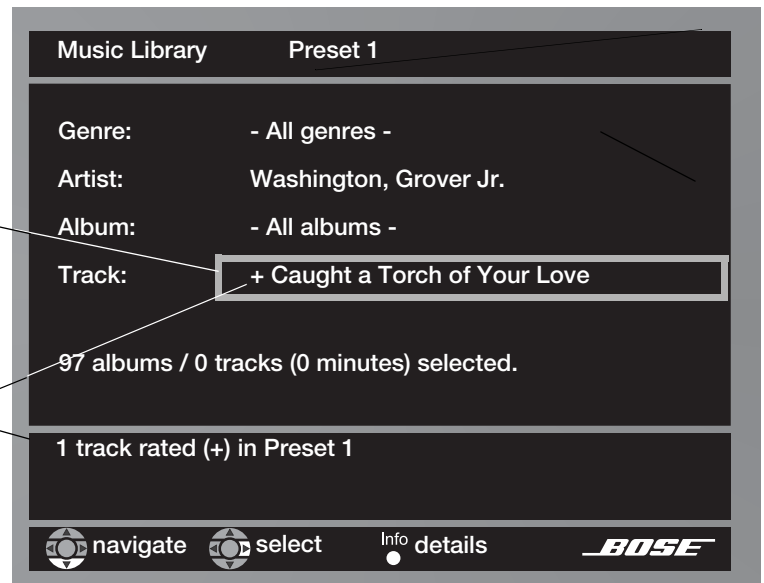
Registering your system for music information updates

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

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

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 32) and on the display panel of your media center (Figure 33).

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

2. Press a source button on your 3•2•1 remote control.

3. Press **Settings** to display the Settings menu for the selected source.

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

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

Settings

Exit

Figure 32

Sample Settings menu on your TV screen

Source name

Menu item name

FM

Output Mode: Auto

Menu items

Setting

Selection box

Navigation help - which buttons to use
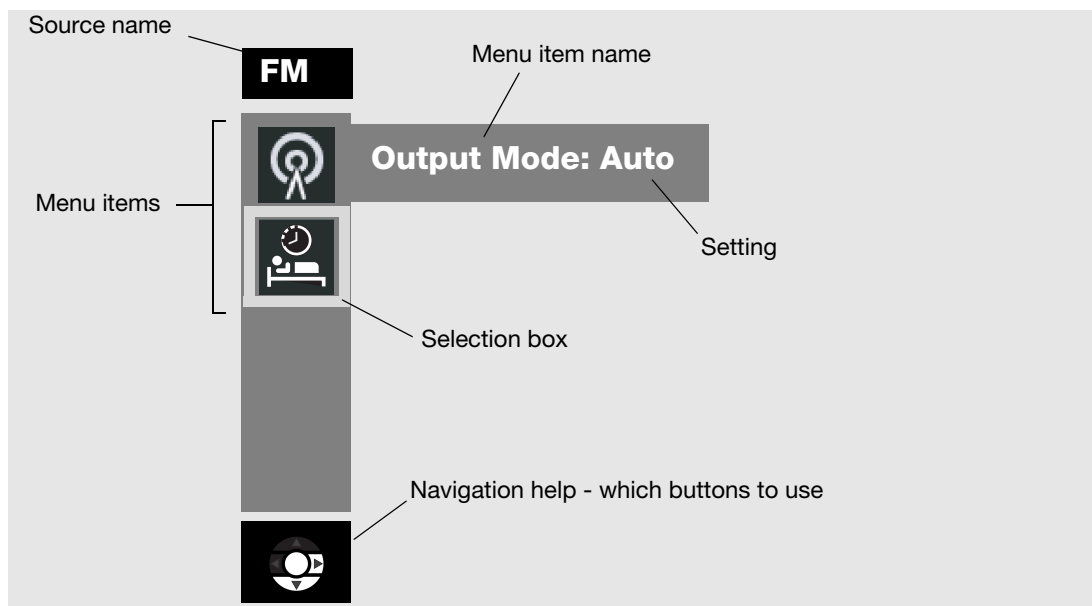
♪ **Note:** *Any changes made in the settings menu on your TV screen will also appear in the media center display panel.*

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

Figure 33

Sample Settings menu on the media center display

>OUTPUT MODE: Auto
SLEEP TIMER: Off
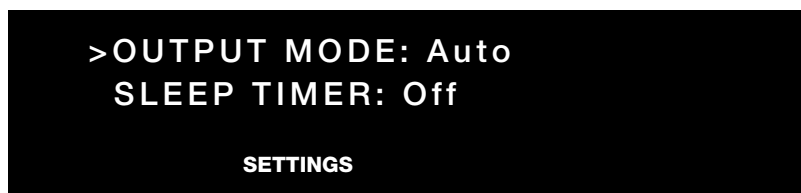
SETTINGS

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 *GSX* system.

2. Press a source button on your 3•2•1 remote control.

Settings

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.

Exit

8. Press **Exit** to leave the Settings menu.
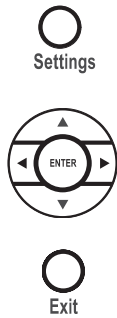
The progression in Figure 34 shows output mode for the FM tuner being changed from Auto to Stereo.

Figure 34

Changing the FM output mode setting

FM

Output Mode: Auto

The down arrow button was pressed to select the Output Mode menu item.

FM

Output Mode: Auto

The right arrow button was pressed to select the setting.

FM

Output Mode: Stereo

The up or down arrow button was pressed to change setting from Auto to Stereo.
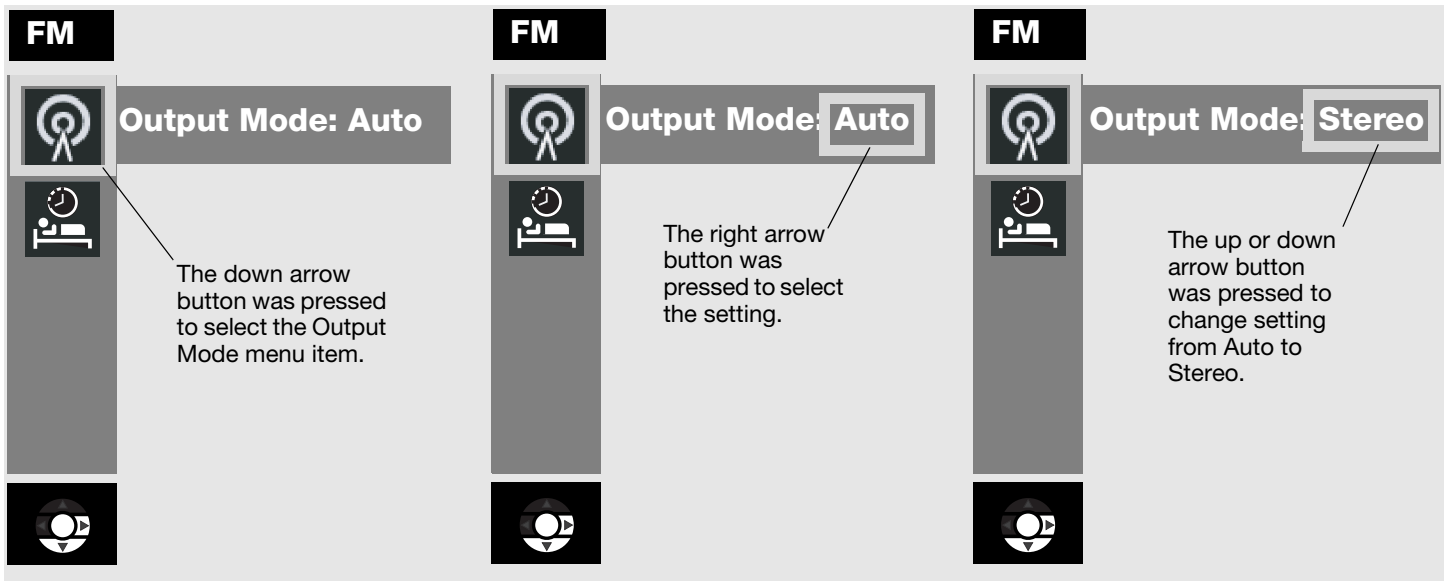
♪ *Note: You can restore all default settings by choosing **Restore Settings** in the Systems menu, under **Media Center** options. This reverts all source settings back to the factory default settings. It also changes the **Audio Processing** setting back to **Automatic** (found in the Systems menu under Audio options).*

Stored CD settings menu

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

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

FM/AM settings menu

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

	Name	Settings	Default	Description
	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.

	Name	Settings	Default	Description
	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 convert mono sound (one-channel audio) into simulated surround sound.
	Time	_:_ _	0:00	Displays the elapsed time of the current DVD. Also, allows you to move to a new location in the movie by entering a new time.
	Title	__ of __		Selects a DVD title from the current disc, according to the number set. Some DVDs do not allow direct access to titles.
	Chapter	____		Selects a DVD chapter from the current DVD movie, according to the number entered. Some DVDs do not allow direct access to chapters.
	Audio Track	Dependent on disc		Allows you to choose one of the available audio tracks on the current disc.
	Subtitle language	Dependent on disc		Allows you to choose one of the available subtitle languages (only if included on 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: **1.** Move backward or forward to the point in the DVD where you want the segment to start. **2.** Press **Enter.** **3.** Move to the point where you want it to end. **4.** Press **Enter.** Repeats until you press the **Settings** 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 58 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.

	Name	*Settings*	*Default*	*Description*
	Movie EQ*	On, Off	On	Optimizes the tonal balance for movies.
	Range Compression*	On, Off	On	Adjusts volume to maintain dialogue intelligibility. Keeps some sounds from overwhelming others.
	Mono Decoding*	On, Off	On	Engages Videostage® 5 mono decoding circuitry to convert mono sound (one-channel audio) into simulated surround sound.
	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 58 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 change System menu options

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

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

2. Press the **System** button on your 3•2•1 remote control. The System menu (Figure 35) appears on your TV screen.

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

Figure 35

System menu example

Categories of options

List of system options for the selected category

Navigation help – Which remote control buttons to use
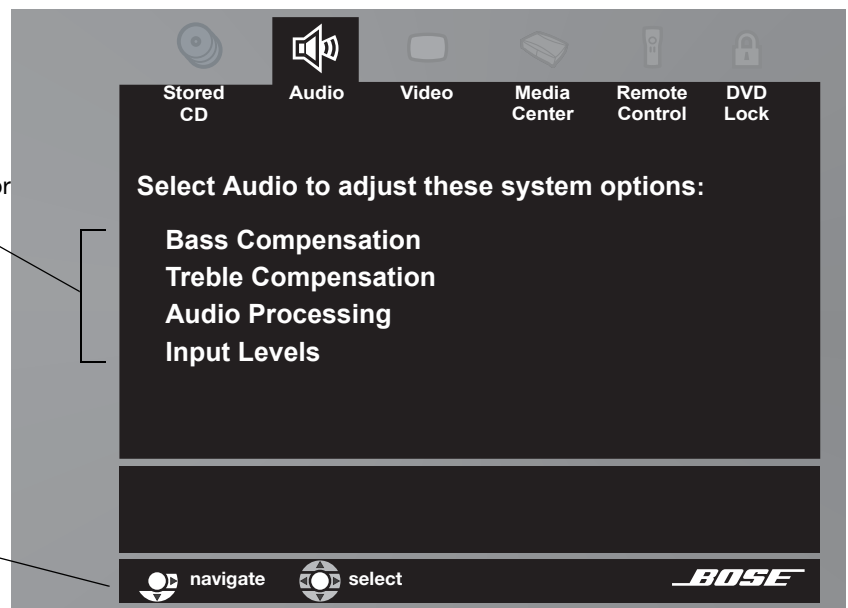
3. Using the right (▶) and left (◀) arrow buttons, highlight one of the option categories (Stored CD, Audio, Video, Media Center, Remote Control, or DVD Lock).

4. Press **Enter** or the down (▼) arrow to select the option category.

5. Using the down (▼) and up (▲) arrow buttons, select the system option to change.

6. Press the right arrow (▶) button to see the system option settings.

7. Press the up (▲) or down (▼) arrow button to change the setting.

8. Press **Enter** or the left arrow (◀) button to save the setting.

9. Press **Exit** to leave the System menu.

Stored CD options

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

♪ *Note: This choice is available from the System menu only when music from at least one CD has been stored in the system. For information on storing your music, refer to "Storing CDs" on page 39.*

Figure 36

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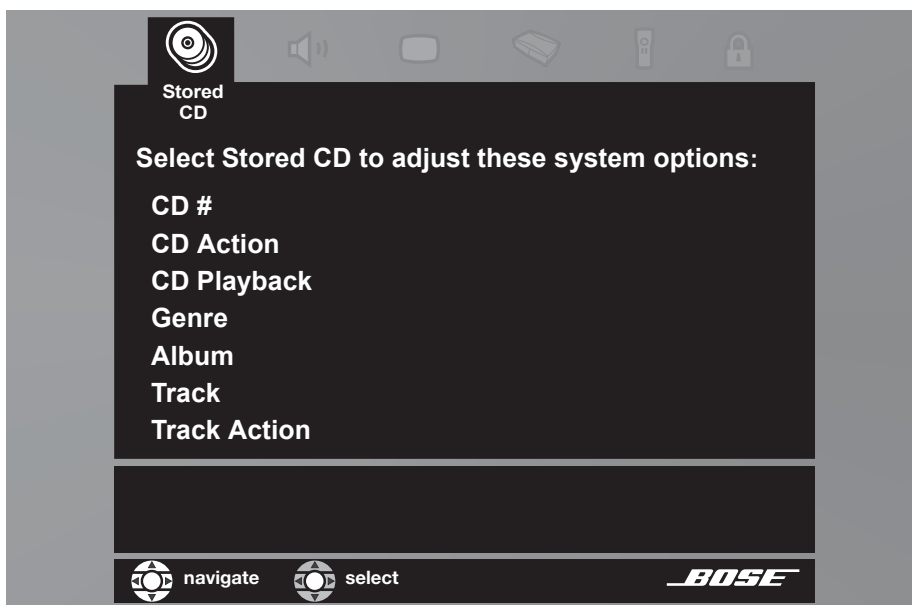
Stored CD Options	Settings	Description
CD# (Indicator only)	1 [default] or selected CD number	Shows the settings for the CD with that number in the system. Changes when the CD selection changes; cannot be edited.
CD Action	Reload CD information [default] Delete CD	Replaces user edits with database information.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

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

*Does not appear in every menu.

** See "Using the Edit Screen" on page 56.

Using the Edit Screen

The Edit Screen (Figure 37) enables you to change or replace music information provided by the system. It appears when you select a menu item that can be edited from the Stored CD options (page 54) or the Library menu (page 46).

Figure 37

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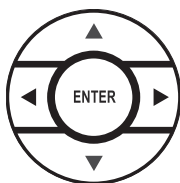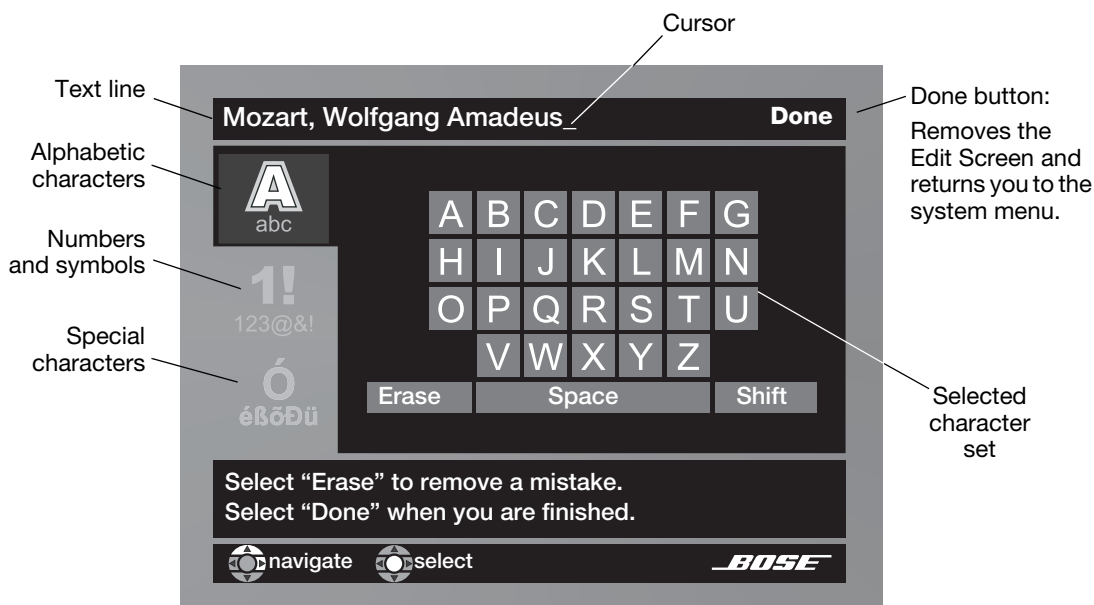
When you select a menu item that can be edited, the text appears in the text line of the Edit Screen. You can add to it or enter new text by selecting characters from the alphabetic, numeric, or special character sets. Use the remote control up, down, left and right arrows to select a character and press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

To remove existing characters from the text line:
Characters are removed from right to left starting at the cursor.

1. Select **Erase.**

2. Press **Enter** to remove the last character in the text line.

3. Press **Enter** as often as needed to remove additional characters in that line.

To enter new text or add to existing text:
New characters are added starting at the cursor.

1. Move to a character and press **Enter.**

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

To enter a space between words:
Spaces are entered to the right of the last character in the text line.

1. Select **Space** and press **Enter.**

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

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

1. Select **Shift** and press **Enter.** Notice that the alphabetic character set is now all capital letters.

2. Select the next character and press **Enter.**

3. Select **Shift** and press **Enter** again if you want the next entered character to be lower case.

To enter a number or symbol:
1. Select the number and symbols character set.

2. Select the number or symbol you want and press **Enter.**

To enter a non-English special character:
1. Select the special characters set.

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

To save the text:
• Select **Done** and press **Enter.**

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

1. Press **System** on the remote.

2. Select **CD Action.**

3. Select **Reload CD information** and press **Enter.**

4. Press **Exit.**

Audio options

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

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

Figure 38

Audio system options

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

Video options

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

Figure 39

Video system options
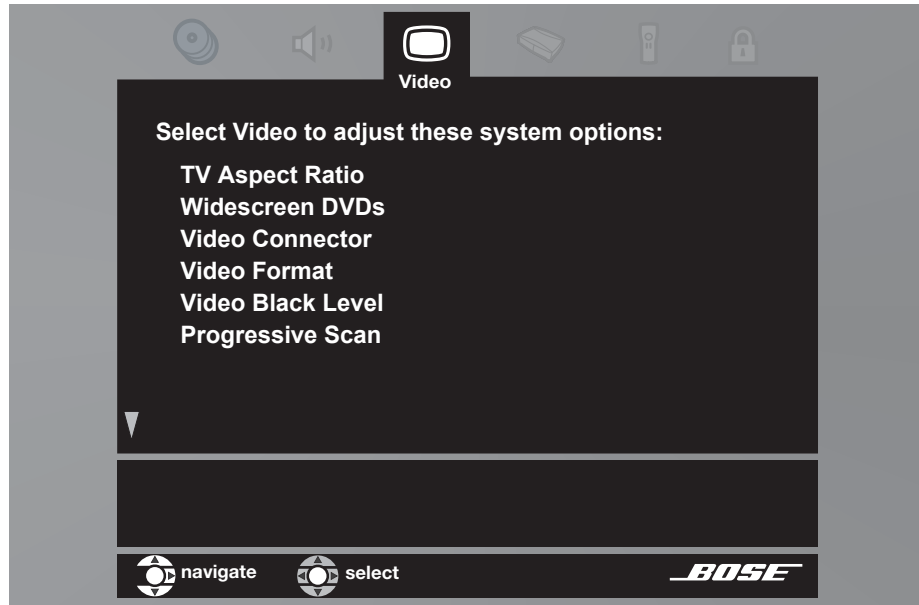
	Settings	*Description*
TV Aspect Ratio	Normal [default] Widescreen	4:3 ratio screen display. 16:9 ratio widescreen display.
Widescreen DVDs	Modified [default] Unmodified	Modified [default]. Unmodified.
Video Connector*	Composite + S-Video [default] Component	Identifies the type of video connection made on the back panel of the media center.
Video Format	NTSC [default] PAL	Correct for NTSC (US standard) monitors. Correct for PAL (European standard) monitors.
Video Black Level	Normal [default] Extended	Screen black level generally appropriate for TVs. Increases screen black level, appropriate for certain TVs.
Progressive Scan**	Off [default] On	Screen image repaints in standard style. Screen image repaints in advanced style (if available on the TV).

* A read-only item that indicates the connection detected automatically by the system.

** Appears only when **Video Connector** is **Component** (NTSC only).

Media center options

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

Figure 40

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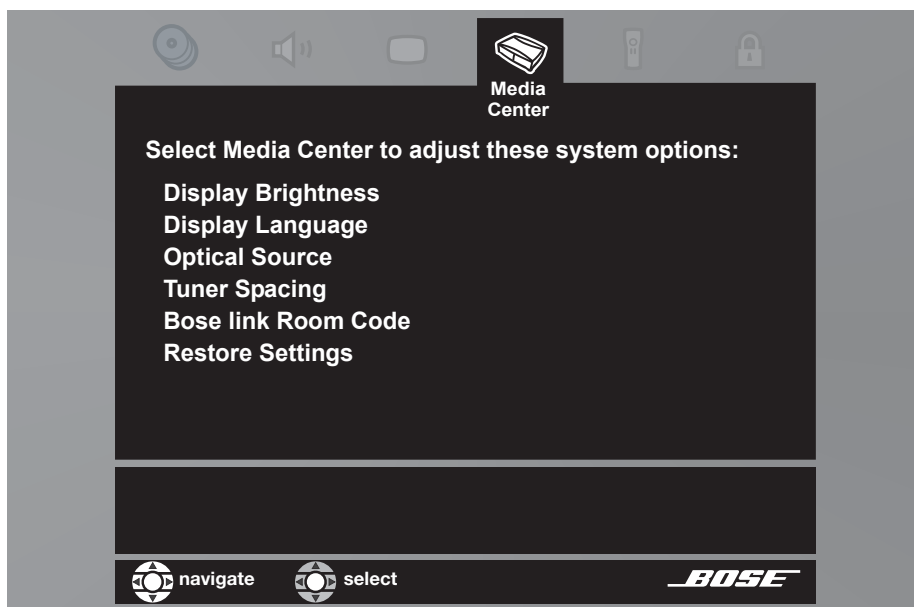
	Settings	**Description**
Display Brightness	4 [default] 1 (darkest) to 4 (brightest)	Media center display lights with a mid-range brightness. Darkens or lightens the media center display.
Display Language	English [default] Dansk, Deutsch, Espanol, Francais, Italiano, Nederlands, Svenska	On-screen display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

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

Remote control options

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

Figure 41

Remote Control system options

Remote
Control

Select Remote Control to adjust these system options:

    TV Brand
    TV Device Code
    CBL•SAT Device
    CBL•SAT Brand
    CBL•SAT Device Code
    AUX Device
    AUX Brand
    AUX Device Code

navigate   select   *BOSE*

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

♪ **Note:** *To find the brand and device codes for each component that can be connected to, and controlled by the 3•2•1 GSX system, see "Device Codes" on page A-1.*

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

DVD Lock options

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

Figure 42

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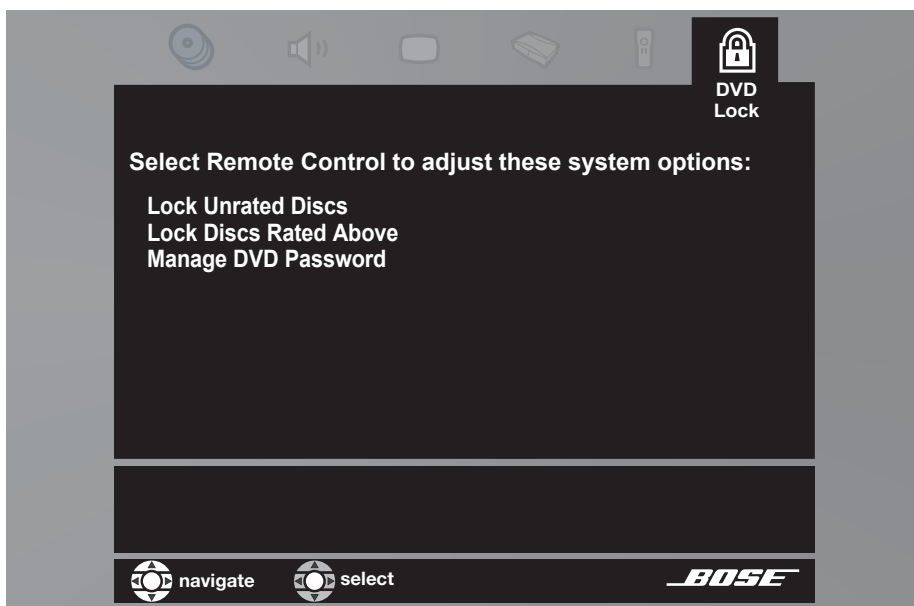
	Settings	Description
Lock Unrated Discs	Off	No restriction applies to unrated DVD movies.
	On	Restricts viewing access to unrated titles when password is set.
Lock Discs Rated Above	1 to 8	Helps prevent viewing discs above the selected number when a password is created.
Manage DVD Password	_ _ _ _	Establishes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

Setting a password and restriction level

Your password will help prevent unauthorized viewing of DVD videos that have a higher rating than your restriction level. There are 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 63.

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

2. Press the **System** button on your 3•2•1 remote control.

3. Using the right (▶) and left (◀) arrow buttons, highlight the DVD Lock option.

4. Press **Enter** or the down (▼) arrow 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

	MPAA Rating	Audience Restriction
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.

MAINTAINING YOUR SYSTEM

Cleaning

Cleaning the media center

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

• Do not use any sprays near the system. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.

• Do not allow liquids to spill into any openings.

Cleaning the speakers

• Clean the surface of your speakers with a soft, damp cloth. You can use an ammonia-free window cleaner on a soft cloth to maintain the finish.

• Do not use any sprays near the speakers. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.

• Do not allow liquids to spill into any openings.

Cleaning discs

• Handle discs by their edges to prevent fingerprints and scratches (Figure 43a).

• To remove stains or fingerprints from the surface of a disc, use a soft and dry lint-free, cloth. Wipe in straight movements from the center of the disc to the outside (Figure 43b). Do not use any chemical products; they can damage the disc.

• Do not use a circular motion to clean (Figure 43c).

• Do not write on or attach labels to the surface of a disc.

• To minimize exposure to dust and dirt, return discs to their cases after use. Store each disc in its case, away from direct sunlight, high temperatures, and humidity.

Figure 43

Disc care

a. b. c.
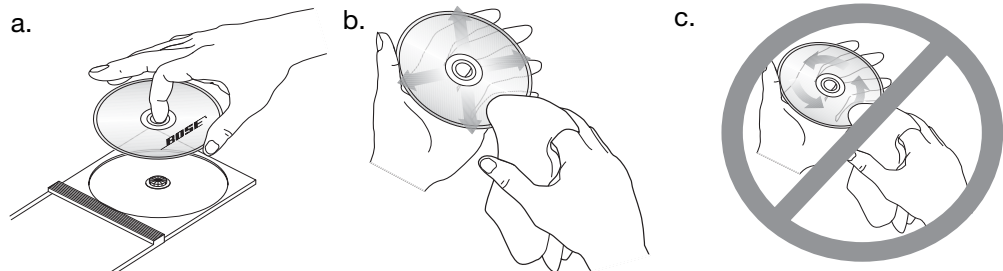
Replacing the remote control batteries

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

• Slide open the battery compartment (Figure 44).

• Notice the polarity markings (+ and –) inside the compartment and install the batteries accordingly. Be sure to replace both batteries.

• Slide the battery compartment cover back into place.

Figure 44

Putting in the batteries

(2) AA batteries (IEC R6)

Battery compartment cover
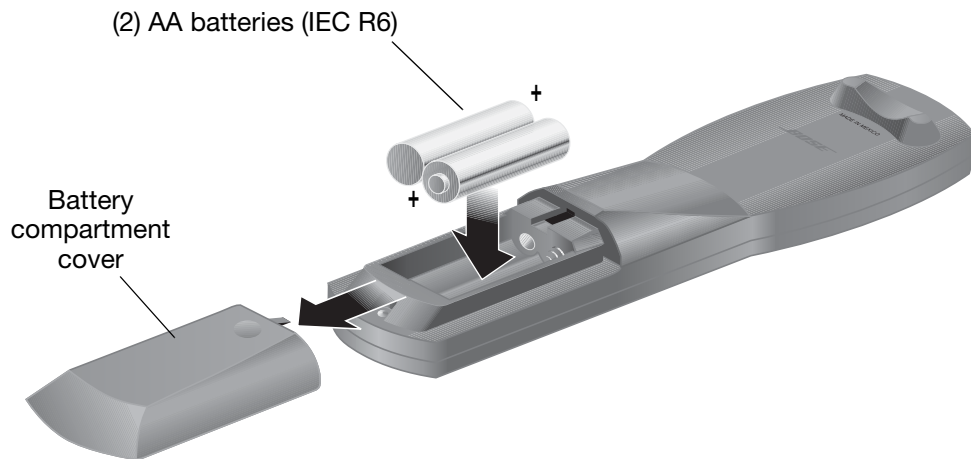
Accessories

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

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

Figure 45

Speaker accessories

UB-20
Wall Bracket

US-T20
Table Stand

UFS-20
Floor Stand
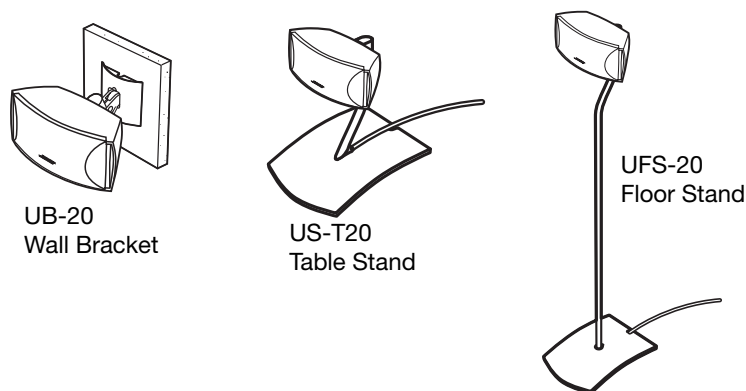
TROUBLESHOOTING

Troubleshooting table

Problem	*What to do*
System doesn't do anything	• Make sure the unit is turned on. Try pressing the remote **On-Off** button and the media center **On-Off** button. • Make sure the Acoustimass module cable is properly connected to the media center and the Acoustimass module. • Make sure the power cord is inserted securely into the Acoustimass® module and plugged firmly into an operating AC wall outlet. • Be sure to select a source (CD/DVD, AM/FM, etc.). • 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.
Disc won't eject	• Turn off the unit. • Unplug the Acoustimass module power cord from the outlet for one minute, then reconnect it. This allows the unit to reset itself. • Before powering on, press and hold **Eject** on the media center.
No sound	• Increase the volume. • Check to see if **MUTE** is lit on the display. If it is, press the **Mute** button on the remote control to unmute the sound. • On the remote, press the button for the source you want to hear. If you previously selected a source by pressing the **Source** button on the media center, you cannot control the new source with the remote until you press the button for this new source on the remote. • 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. • Check speaker connections. • Turn the media center off for 10 seconds, then on again. • Check the connections for any external audio devices. Be sure to select the correct source for the desired input. • Be sure the disc is placed correctly, label-side up, in the CD tray. • Connect the FM and AM antennas. • Unplug the Acoustimass module power cord from the outlet for a minute, then reconnect it. This allows the unit to reset itself. • If you are using an optical digital audio connection, make sure that the optical jack is correctly assigned in the System menu. • Make sure the volume is turned up on the TV. • Check input level settings for each connected device in the System menu.
Sound, but no picture	• Make sure the TV is on. • When playing a DVD or other video source, make sure the TV is set to the correct video input.
Remote control is inconsistent or does not work	• Check batteries and their polarity (+ and –). See "Replacing the remote control batteries" on page 65. • On the remote, press the button for the source you want to hear. If you previously selected a source by pressing the **Source** button on the media center, you cannot control the new source with the remote until you press the button for this new source on the remote. • Point the remote control at the media center.

Problem	*What to do*
Radio does not work or has poor reception	• Make sure antennas are connected properly. • Move AM antenna at least 20 inches (50 cm) from the media center. • Adjust antenna position to improve reception. • AM antenna must be upright. • Move antennas farther from TV or other electronic equipment. • You may be in an area of weak signal coverage.
DVD or CD does not play	• Check to see if the Play symbol in the display is lit. • After pressing the CD/DVD button, wait a few seconds before pressing **Play.** • Make sure the disc is properly inserted (label-side up). • Eject the disc and try loading it again. • There may be dirt or dust on the disc. Clean the disc. See "Cleaning discs" on page 64. • The disc may be defective. Try another disc. • Make sure region codes for both the DVD and player match. See "Check for region code compatibility" page 5.
FM sound is distorted	• Adjust antenna position to reduce interference.
Sound is distorted	• Make sure speaker cables are not damaged and the connections are secure. • Reduce the output level from any external audio devices connected to the music center. • Reduce the input level setting for the connected device in the system menu.
Picture is black and white or rolling	• Check the video cable connections. • Check the Video Format setting and change to appropriate setting (NTSC or PAL). See "Video options" on page 59.
Forgot your password	• Enter the password 2673 to unlock DVD access.
"NO LABEL" appears on the media center display when using the Stored CD source	• The uMusic system uses a catalog of music information to identify and classify the CDs you store. A recent CD release might not be in the catalog. To receive music information updates, be sure to register your system. • Manually enter information using the edit screen (page 56).
"BUSY PROCESSING CDs" appears on the media center display and it won't let me store any more CDs	• When you store a CD, the tracks are first placed in a holding area which can hold up to 10 CDs. This message appears if this holding area is full. Wait 30 minutes and try again.

Customer service

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

TECHNICAL INFORMATION

Power rating

USA/Canada: 120V∿ 50/60Hz 300W

International: 220-240V∿ 50/60Hz 300W

Dual voltage: 115/230V∿ 50/60Hz 300W

Audio inputs

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

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

TV – L, R (analog); **D** (digital)

Optical – SPDIF digital, mapped to input

Audio outputs

Acoustimass® Module – SPDIF

Video inputs

C (composite) – NTSC or PAL format

S-Video

Video outputs

C (composite) – NTSC or PAL format

S-Video

Component Y, Pb, Pr

Antennas

FM 75Ω – external FM antenna

AM – external AM antenna

Maximum ambient temperature

104°F (45°C)

Dimensions

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

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

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

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

Weights

Media center: 6.7 lb (3.0 kg)

GSX speakers: 1 lb (.45 kg) each

Acoustimass module: 23.3 lb (10.6 kg)

Finish

Media center: polymer

Speakers: polymer

Acoustimass module: polymer

END USER LICENSE AGREEMENT

IMPORTANT: READ CAREFULLY: This End User License Agreement ("EULA") is a legal agreement between you, the End User ("End User" or "You"), and Bose Corporation ("Bose") governing your use of the technology and software and data and data content belonging to Bose, its vendors and licensors ("Technology"), that is contained in this audio/video device ("System"). By tearing open the protective wrapping on this System, you are agreeing to be bound by the terms of this EULA. In the event you disagree with any of the terms contained herein, DO NOT UNWRAP THIS SYSTEM. Return the sealed System to Bose Corporation for a full refund.

Copyright laws and international copyright treaties, as well as other intellectual property laws and treaties protect the Technology contained within this System. The Technology is being licensed, not sold. This EULA grants you the right to use the Technology only on this Bose System. You may NOT transfer, lend, distribute, prepare derivative works, reverse engineer, de-compile, or disassemble the Technology, except and only to the extent that applicable law expressly permits such activity. You agree that you will use the Technology and the System solely for your own personal non-commercial use.

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Device Codes
Códigos de instalación
Codes de configuration

TV

Television
Televisor
Télévision

888	0264, 0412	Akai	0009, 0030, 0035, 0037, 0072, 0163, 0178, 0191, 0208, 0216, 0217, 0218, 0264, 0284, 0361, 0371, 0377, 0412, 0433, 0448, 0473, 0480, 0516, 0548, 0556, 0581, 0602, 0606, 0631, 0672, 0696, 0702, 0708, 0714, 0715, 0729, 0745, 0753, 0806, 0812, 1537, 1903	Anitech	0009, 0037, 0282	Axion	1937
A-Mark	0003			Ansonic	0009, 0104, 0292, 0370, 0428, 0668	Axxent	0009
A.R. Systems	0374, 0455					Baihe	0009, 0264, 0412
Abex	0032			AOC	0003, 0009, 0030, 0060, 0092, 0093, 0108, 0178, 0179, 0180, 0451	Baile	0001, 0009, 0374, 0661
Accent	0009					Baird	0072, 0073, 0190, 0193, 0208, 0217
Acec	0012						
Acura	0009	Akiba	0037, 0218, 0282, 0294, 0455	Aolingpu	0858	Bang & Olufsen	0087, 0565
Adcom	0284			Aolinpike	0264, 0412	Baohuashi	0264, 0412
Addison	0092, 0108, 0653	Akito	0037, 0272	Apex Digital	0748, 0765, 0767, 0879, 1943	Baosheng	0009, 0817
Admiral	0087, 0093, 0163, 0264, 0463	Akura	0009, 0037, 0218, 0264, 0282, 0412, 0493, 0668, 0714	Apollo	0473	Barco	0380
				Arc En Ciel	0109, 0196, 0198, 0399, 0501	Basic Line	0009, 0037, 0217, 0218, 0282, 0339, 0374, 0455, 0556, 0668
Advent	0519, 0761, 0779, 0783, 0807, 0815, 0817, 0842, 1933	Alaron	0179, 0216				
		Alba	0009, 0036, 0037, 0163, 0216, 0218, 0235, 0247, 0355, 0371, 0418, 0443, 0487, 0581, 0668, 1037	Arcam	0216, 0217	Bastide	0217
Adventura	0046			Archer	0003	Baur	0037, 0303, 0361, 0505, 0512, 0535, 0554
Adyson	0032, 0216, 0217			Ardem	0037, 0714		
Agashi	0216, 0217, 0264			Aristona	0012, 0037, 0556	Baysonic	0180, 0236, 0463
		Albatron	0700, 0843	Arthur Martin	0163, 0400		
AGB	0516	Alfide	0672	ASA	0070, 0087, 0104	Bazin	0217
Agef	0087	Allorgan	0206, 0217, 0294	Asberg	0037, 0102	Beaumark	0178
Aiko	0009, 0092, 0216, 0217, 0264			Asora	0009	Beijing	0001, 0009, 0208, 0226, 0264, 0374, 0412, 0661, 0812, 0817, 0821
		Allstar	0037	Astra	0037		
Aim	0037, 0072, 0706, 0753	Ambassador	0177	Asuka	0217, 0218, 0264		
		America Action	0180	Atlantic	0037, 0206, 0216, 0259	Beko	0037, 0370, 0418, 0486, 0606, 0714, 0715, 1037
Aiwa	0701, 0705, 0848, 1904, 1910, 1914	Amplivision	0217, 0370, 0400	Atori	0009		
		Ampro	0751	Auchan	0163, 0400	Bell & Howell	0016, 0154
		Amstrad	0009, 0037, 0171, 0177, 0218, 0264, 0354, 0371, 0412, 0433, 0516, 0581, 0648, 1037	Audinac	0180	Beon	0032, 0037, 0418
				Audiosonic	0009, 0037, 0109, 0217, 0218, 0264, 0337, 0370, 0374, 0428, 0486, 0714, 0715	Berthen	0668
						Best	0337
						Bestar	0037, 0370, 0374
		Anam	0003, 0009, 0180, 0250, 0628, 0700, 0861	Audioton	0217, 0264, 0370, 0428, 0486	Bestar-Daewoo	0374
						Binatone	0217
		Anam National	0055, 0250, 0650	Audiovox	0003, 0092, 0180, 0451, 0623, 0802, 0875, 1937	Black Diamond	0614, 1037
						Black Panther	0102
		Anglo	0009, 0264	Autovox	0087, 0206, 0217, 0247	Black Star	0247
		Anhua	0051			Blacktron	0282
				Awa	0009, 0011, 0036, 0108, 0157, 0216, 0217, 0264, 0374, 0606	Blackway	0218, 0282
						Blaupunkt	0036, 0170, 0191, 0195, 0200, 0327, 0328, 0455, 0535, 0554

TV

Brand	Codes
Blue Sky	0037, 0218, 0282, 0455, 0487, 0556, 0668, 0714, 0715, 1037, 1254
Blue Star	0282
Bondstec	0247
Boots	0009, 0217, 0272
BPL	0037, 0282
Bradford	0180
Brandt	0109, 0196, 0198, 0335, 0399, 0501, 0560, 0625
Brandt Electronic	0109, 0501
Brinkmann	0037, 0418, 0486, 0519, 0668, 1237
Brionvega	0087
Britannia	0216, 0217
Broksonic	0003, 0236, 0463, 1905, 1911, 1929, 1935, 1938
Bruns	0087
BSR	0163, 0294
BTC	0218
Bush	0009, 0036, 0037, 0208, 0217, 0218, 0235, 0264, 0272, 0282, 0284, 0294, 0355, 0361, 0371, 0374, 0487, 0519, 0556, 0581, 0614, 0617, 0668, 0698, 0714, 1037, 1237, 1900
Caihong	0009, 0817
Cailing	0748
Candle	0030, 0046, 0056, 0186
Canton	0218
Capsonic	0264
Carad	0610, 0668, 1037
Carena	0037, 0455
Carnivale	0030
Carrefour	0036, 0070
Carver	0054, 0170
Cascade	0009, 0037
Casio	0037
Cathay	0037
CCE	0037, 0217
Celebrity	0000
Celera	0765
Celestial	0767, 0819, 0820, 0821
Centrex	0780, 0826
Centrum	1037
Centurion	0037
Century	0087, 0238, 0247
CGE	0074, 0084, 0247, 0370, 0418
Changcheng	0001, 0009, 0051, 0264, 0374, 0412, 0661, 0817
Changfei	0009, 0374, 0817
Changfeng	0264, 0412, 0696, 0753, 0817
Changhai	0009, 0817
Changhong	0009, 0156, 0264, 0508, 0519, 0765, 0767, 0783, 0807, 0817, 0820, 0821, 0827, 0848, 1028, 1910
Chengdu	0009, 0817
Ching Tai	0003, 0009, 0092, 0179
Chun Yun	0000, 0003, 0009, 0033, 0092, 0179, 0180, 0700, 0843
Chunfeng	0009, 0264
Chung Hsin	0033, 0036, 0053, 0108, 0180
Chungfeng	0412
Chunsun	0009, 0817
Cimline	0009, 0218
Cinema	0672
Cineral	0092, 0451
Citizen	0030, 0039, 0046, 0056, 0060, 0092, 0186, 0280, 0451, 0535, 1928
City	0009
Clarion	0180
Clarivox	0037, 0070
Clatronic	0009, 0037, 0102, 0217, 0218, 0247, 0264, 0370, 0371, 0579, 0714
Clayton	1037
CMS	0216
CMS Hightec	0217
Colt	1906
Concerto	0056
Concorde	0009
Condor	0009, 0037, 0247, 0264, 0282, 0370, 0411, 0418
Conia	0754
Conic	0032
Conrac	0808
Conrowa	0009, 0145, 0156, 0264, 0412, 0696, 0698, 0753, 1170
Contec	0009, 0036, 0037, 0157, 0180, 0216
Continental Edison	0109, 0196, 0198, 0399, 0487, 0501
Cosmel	0009, 0037, 0337
Craig	0180
Crosley	0054, 0074, 0084, 0087, 0247
Crown	0009, 0037, 0039, 0053, 0180, 0208, 0339, 0370, 0412, 0418, 0486, 0487, 0579, 0606, 0672, 0712, 0714, 0715
Crown Mustang	0672
CS Electronics	0216, 0218, 0247
CTC	0247
Curtis Mathes	0016, 0030, 0039, 0047, 0051, 0054, 0056, 0060, 0093, 0145, 0154, 0166, 0451, 0466, 0702, 1147, 1347, 1919
CXC	0180
Cybertron	0218
D-Vision	0037
Daenyk	0179, 0672
Daewoo	0003, 0009, 0030, 0032, 0037, 0039, 0056, 0092, 0108, 0154, 0170, 0178, 0180, 0217, 0218, 0374, 0451, 0499, 0556, 0623, 0628, 0634, 0661, 0672, 0700, 1661, 1902, 1909, 1921, 1928
Dainichi	0216, 0218
Dansai	0009, 0032, 0035, 0036, 0037, 0208, 0216, 0217
Dansette	0412
Dantax	0714, 0715
Dawa	0037
Dayton	0009
Daytron	0009, 0037, 0374
Dayu	0374, 0661
De Graaf	0208, 0227, 0548
DEC	0795
Decca	0033, 0037, 0072, 0217, 0272, 0516, 0621
Deitron	0374
Denko	0264
Denon	0145, 0511
Denver	0037
DER	0190, 0193
Desmet	0009, 0037, 0087
Diamant	0037
Diamond	0009, 0264, 0698, 0825
Digatron	0037
Digiline	0668
Digital Life	0780, 0872
Digitor	0037
Dixi	0009, 0037, 0087
DL	0848
Domeos	0668
Domland	0394
Dongda	0009
Donghai	0009
Drean	0037
DTS	0009
Dual	0037, 0217, 0259, 0303, 0394, 0519, 0807, 1137, 1237
Dual Tec	0217
Dumont	0017, 0070, 0087, 0102
Durabrand	0003, 0171, 0178, 0180, 0463
Dux	0012, 0037
Dwin	0720, 0774
Dynatron	0012, 0037
E-Elite	0218
ECE	0037
Edison-Minerva	0487
Elbe	0217, 0238, 0259, 0292, 0411, 0435, 0516, 0610, 0630
Elbe-Sharp	0516
Electroband	0000
Elekta	0009, 0264

Elektra	0017, 1661	Finlux	0037, 0070, 0072, 0087, 0102, 0104, 0105, 0179, 0217, 0346, 0411, 0473, 0480, 0492, 0516, 0621, 0629, 0631, 0714, 0715	GEC	0037, 0043, 0072, 0163, 0217, 0361, 0516	Grunpy	0179, 0180
ELG	0037					Haier	0698, 0768, 0779, 0869, 1017
Elin	0009, 0037, 0104, 0361, 0448, 0548			Geloso	0009, 0374		
				General	0186, 0590	Haihong	0009
Elite	0218			General Electric	0021, 0027, 0047, 0055	Haiyan	0264, 0412, 0817
Elman	0102	Firstar	0009, 0033, 0236			Halifax	0216, 0217, 0264
Elta	0009, 0264			General Technic	0009		
Emco	0247	Firstline	0009, 0037, 0072, 0208, 0216, 0217, 0235, 0238, 0247, 0294, 0361, 0374, 0411, 0556, 0668, 0714, 1037	Genesis	0009, 0037	Hallmark	0178
Emerson	0037, 0038, 0039, 0070, 0087, 0154, 0171, 0177, 0178, 0179, 0180, 0236, 0247, 0280, 0282, 0361, 0370, 0371, 0463, 0486, 0623, 0714, 1905, 1909, 1911, 1928, 1929, 1944			Genexxa	0009, 0037, 0163, 0218, 0412, 0493	Hampton	0216, 0217
						Hanimex	0218, 0294, 1908
				Giant	0217		
				Gibralter	0017, 0030	Hankook	0030, 0056, 0178, 0180, 0628
				Gintai	0354, 0721		
		Fisher	0036, 0045, 0047, 0072, 0087, 0104, 0154, 0157, 0208, 0217, 0303, 0370	Goldfunk	0668	Hanseatic	0009, 0037, 0087, 0217, 0282, 0294, 0361, 0377, 0394, 0428, 0499, 0519, 0556, 0634, 0661, 0714, 0808, 1237
				GoldHand	0216		
				GoldStar	0001, 0030, 0032, 0037, 0039, 0056, 0109, 0154, 0163, 0178, 0216, 0217, 0247, 0290, 0361, 0377, 0606, 0714, 0715, 1910, 1926		
Emperor	0282						
Envision	0030, 0813						
Enzer	0753	Flint	0037, 0072, 0218, 0264, 0455, 0610				
Epson	0833, 0840					Hantarex	0009, 0037, 0102, 0238, 0516
Erres	0012, 0037	Forgestone	0193				
ESC	0037, 0217	Formenti	0037, 0087, 0216			Hantor	0037
Ether	0003, 0009, 0030					Harley Davidson	0043, 0179, 1904
		Fortress	0087, 0093	Gooding	0487		
Etron	0001, 0009, 0163	Fraba	0037, 0370	Goodmans	0009, 0032, 0035, 0036, 0037, 0072, 0179, 0217, 0218, 0235, 0264, 0335, 0360, 0371, 0374, 0480, 0487, 0499, 0516, 0556, 0560, 0579, 0630, 0634, 0661, 0668, 1037, 1900, 1909	Harman/Kardon	0054
		Friac	0009, 0037, 0102, 0370, 0499			Harvard	0180
Eurofeel	0217, 0264					Harwood	0009, 0032, 0037, 0412, 0487
Euroman	0037, 0216, 0217, 0264, 0370	Frontech	0009, 0163, 0217, 0247, 0264, 0448				
						Hauppauge	0037
		Fujitsu	0009, 0072, 0179, 0186, 0206, 0217, 0259, 0683, 0809, 0853			Havermy	0093
Europa	0037					HCM	0009, 0037, 0217, 0218, 0264, 0282, 0412, 0418
Europhon	0102, 0217, 0516						
Expert	0163, 0206, 0259, 0400	Fujitsu General	0009, 0186, 0206, 0217	Gorenje	0370		
				GPM	0218	Hello Kitty	0451
Exquisit	0037, 0247	Funai	0171, 0179, 0180, 0264, 0294, 0303, 0668, 1904	Gradiente	0053, 0056, 0170	Hema	0009, 0217
Feilang	0009					Hifivox	0109, 0196, 0198, 0399, 0501
Feilu	0009, 0817			Graetz	0163, 0339, 0361, 0371		
Feiyan	0264, 0412	Furi	0145, 0264, 0412, 0817				
Feiyue	0009, 0817			Gran Prix	0648	Higashi	0216
Fenner	0009, 0374	Futuretech	0180	Granada	0037, 0045, 0072, 0108, 0163, 0208, 0217, 0225, 0226, 0339, 0400, 0473, 0502, 0516, 0548, 0560	Highline	0037, 0264
Ferguson	0037, 0053, 0073, 0109, 0190, 0192, 0193, 0238, 0335, 0548, 0560, 0625	Galaxi	0037			Hikona	0218
		Galaxis	0037, 0370			Himitsu	0180, 0628, 0779
		Ganxin	0817				
		Gateway	1755, 1756			Hinari	0009, 0036, 0037, 0179, 0218, 0235, 0264, 0294, 0355, 1908
		GBC	0009, 0218, 0374	Grandin	0009, 0037, 0163, 0282, 0374, 0455, 0579, 0610, 0668, 0714, 0715		
Fidelity	0037, 0163, 0193, 0216, 0264, 0361, 0371, 0412, 0512	GE	0021, 0027, 0030, 0047, 0051, 0055, 0092, 0093, 0178, 0180, 0282, 0451, 0560, 0625, 1147, 1347, 1447, 1454, 1907, 1917, 1919, 1922			Hisawa	0218, 0282, 0400, 0455, 0610, 0714
				Grundig	0009, 0036, 0037, 0070, 0191, 0195, 0443, 0487, 0535, 0554, 0556, 0587, 0672, 0706, 0740, 1935	Hisense	0009, 0145, 0156, 0227, 0508, 0696, 0748, 0753, 0821, 0848, 1170
Filsai	0217						
Finlandia	0072, 0163, 0208, 0346, 0548	Geant Casino	0400			Hit	0087

TV

Brand	Codes
Hitachi	0009, 0016, 0027, 0030, 0032, 0036, 0037, 0038, 0039, 0043, 0044, 0056, 0072, 0092, 0105, 0108, 0109, 0145, 0151, 0156, 0157, 0163, 0165, 0178, 0179, 0186, 0194, 0196, 0198, 0217, 0225, 0227, 0473, 0480, 0481, 0492, 0499, 0508, 0516, 0548, 0563, 0578, 0629, 0634, 0719, 0744, 1037, 1045, 1137, 1145, 1170, 1225, 1256, 1481, 1904
Hitachi Fujian	0108, 0150, 0828
Hitsu	0009, 0218
HMV	0087, 0193
Hongmei	0009, 0093, 0264, 0817, 0848, 1910
Hongyan	0264, 0412, 0817
Hornyphone	0012, 0037
Hoshai	0282
Hua Tun	0009
Huafa	0009, 0145
Huanghaimei	0009
Huanghe	0009, 0817
Huanglong	0009
Huangshan	0009, 0264, 0412, 0817
Huanyu	0216, 0227, 0264, 0374, 0817, 0848, 1910
Huaqiang	0264, 0412
Huari	0145, 0264, 0412
Huodateji	0051
Hygashi	0216, 0217
Hyper	0009, 0216, 0217, 0247
Hypson	0037, 0264, 0282, 0400, 0455, 0668, 0714, 0715
Hyundai	0803, 0849, 0865
H÷her	0714
Iberia	0037
ICE	0216, 0217, 0218, 0264, 0371
ICeS	0216, 0218
Imperial	0037, 0074, 0084, 0196, 0247, 0370, 0418, 0630
Imperial Crown	0001, 0009, 0264, 0374, 0412, 0661
Indiana	0037
Infinity	0054
Ingelen	0163, 0487, 0610, 0714
Ingersoll	0009
Inno Hit	0009, 0072, 0102, 0217, 0247, 0282, 0290, 0516
Innova	0037
Innovation	0519, 1237
Inteq	0017
Interbuy	0037, 0247, 0264
Interfunk	0012, 0037, 0087, 0109, 0163, 0200, 0247, 0275, 0327, 0361, 0501, 0512
Internal	0037
Intervision	0009, 0037, 0102, 0217, 0218, 0247, 0264, 0282, 0377, 0394, 0448, 0455, 0486, 0487, 0519, 1237
Irradio	0009, 0037, 0218, 0247, 0290, 0371
IRT	0451, 0628, 0698, 1661
Isukai	0037, 0218, 0282, 0455
ITC	0217
ITS	0037, 0216, 0218, 0264, 0282, 0371
ITT	0163, 0179, 0193, 0208, 0339, 0346, 0361, 0473, 0480, 0548, 0610
ITT Nokia	0163, 0179, 0208, 0339, 0346, 0361, 0473, 0480, 0548, 0606, 0610
ITV	0037, 0247, 0264, 0284, 0374
Janeil	0046
JBL	0054
JCB	0000
Jean	0003, 0009, 0036, 0051, 0092, 0156, 0179, 0236, 0721
JEC	0502
Jensen	0519, 0761, 0807, 0815, 0817, 1933
Jiahua	0051
Jialicai	0009, 0264, 0412
Jinfeng	0051, 0208, 0226, 0817
Jinhai	0848, 1910
Jinque	0009, 0264, 0412, 0817
Jinta	0009, 0264, 0412, 0848, 1910
Jinxing	0009, 0037, 0054, 0145, 0156, 0264, 0556, 0698, 0817, 0821
JMB	0443, 0499, 0556, 0634
Jocel	0712
Jubilee	0556
Juhua	0264, 0412, 0817
JVC	0036, 0053, 0054, 0093, 0190, 0192, 0193, 0218, 0371, 0418, 0463, 0508, 0606, 0653, 0683, 1253, 1923
Kaige	0009, 0264, 0412, 0817
Kaisui	0009, 0037, 0216, 0217, 0218, 0282, 0455
Kamp	0216
Kangchong	0848, 1910
Kangli	0001, 0009, 0264, 0374, 0661, 0817
Kangyi	0009, 0264, 0412
Kapsch	0104, 0163, 0206, 0361
Karcher	0264, 0282, 0610, 0714, 0778
Kathrein	0556
Kawa	0371
Kawasho	0216
KB Aristocrat	0163
KEC	0180
Ken Brown	0236, 0463
Kendo	0037, 0102, 0235, 0247, 0411, 0428, 0519, 0610, 1237
Kenia	0030
Kennedy	0163, 0206, 0435
Kenwood	0030
Kingsley	0216
Kioto	0054, 0556, 0706
Kiton	0037, 0668
KLH	0765, 0767
KLL	0037
Kloss	0024, 0046
Kneissel	0037, 0238, 0259, 0292, 0374, 0411, 0435, 0499, 0556, 0610
Kolin	0033, 0036, 0053, 0108, 0180
Kolster	0102, 0247
Kongque	0009, 0264, 0817
Konka	0037, 0218, 0371, 0418, 0628, 0632, 0638, 0641, 0703, 0707, 0714, 0754, 0779, 0795, 0816, 0817, 1957
Kontakt	0487
Korpel	0037
Korting	0087
Kotron	0412
Koyoda	0009
Kraking	0238
Kriesler	0012
KTV	0030, 0039, 0180, 0217, 0280
Kuaile	0009, 0264, 0412
Kuba Electronic	0303
Kulun	0009
Kunlun	0051, 0208, 0226, 0264, 0374, 0661, 0817
Kyoshu	0032, 0412, 0418
Kyoto	0032, 0163, 0216, 0217
L&S Electronic	0808
Lark	0386
LaSAT	0486
Leader	0009
Lecson	0037
Lemair	0032, 0411
Lenco	0037, 0374
Lenoir	0009
Lesa	0247
Leyco	0037, 0072, 0264, 0294, 0579

Brand	Codes
LG	0001, 0003, 0030, 0032, 0037, 0038, 0039, 0056, 0060, 0108, 0109, 0178, 0442, 0556, 0606, 0644, 0698, 0700, 0714, 0715, 0856, 1178, 1934
Liesenk & Tter	0037
Liesenkotter	0012, 0037, 0327, 0328
Lifetec	0009, 0037, 0218, 0374, 0519, 0668, 1037, 1137, 1237
Lihua	0817
Lloyd's	0001, 0009, 1904
Lloytron	0032
Loewe	0037, 0087, 0136, 0292, 0512, 0516, 0633, 0655, 0790, 1790
Logik	0001, 0011, 0016, 0033, 0193, 0371, 0698
Logix	0668
Longjiang	0264, 0412, 0817
Luma	0206, 0259
Lumatron	0037, 0073, 0163, 0206, 0217, 0259, 0264
Lux May	0009, 0037, 0581
Luxman	0056, 0579
Luxor	0163, 0179, 0194, 0208, 0217, 0290, 0361, 0473, 0480, 0548, 0631
LXI	0047, 0054, 0154, 0156, 0178
M & S	0054
M Electronic	0009, 0037, 0104, 0105, 0109, 0163, 0217, 0346, 0374, 0480
Madison	0037
Magnadyne	0087, 0102, 0247, 0516
Magnafon	0102, 0216, 0516
Magnasonic	1913, 1928
Magnavox	0011, 0020, 0024, 0030, 0036, 0054, 0179, 0186, 0187, 0386, 0706, 0780, 1254, 1454, 1904, 1913, 1931, 1944

Brand	Codes
Magnin	1907
Magnum	0037, 0648, 0714, 0715
Majestic	0016
Mandor	0264
Manesth	0035, 0037, 0217, 0235, 0264, 0294
Manhattan	0037, 0668, 0778, 1037
Marantz	0030, 0037, 0054, 0412, 0556, 0704, 0854, 0855, 1154
Marelli	0087
Mark	0009, 0037, 0216, 0217, 0374, 0714, 0715
Masuda	0009, 0037, 0217, 0218, 0264, 0371
Materin	0858
Matsui	0009, 0011, 0033, 0035, 0036, 0037, 0072, 0163, 0177, 0191, 0195, 0208, 0217, 0235, 0272, 0294, 0335, 0354, 0355, 0371, 0433, 0443, 0455, 0487, 0516, 0556, 0579, 0714
Matsushita	0051, 0250, 0650
McMichael	0043
Mediator	0012, 0037
Medion	0037, 0512, 0556, 0668, 0698, 0808, 1037, 1137, 1437, 1900
Megapower	0700
Megas	0610
Megatron	0003, 0145, 0178
Meile	0264, 0412, 0817, 0848, 1910
Melectronic	0009, 0037, 0104, 0105, 0163, 0216, 0217, 0247, 0346, 0374, 0411, 0480, 0492, 0512, 0634, 0661
Melvox	0400
Memorex	0009, 0016, 0056, 0060, 0150, 0154, 0178, 0179, 0250, 0463, 1037, 1911, 1920, 1924, 1926, 1927
Memphis	0337

Brand	Codes
Mercury	0001, 0009, 0037
Mermaid	0037
Metronic	0625
Metz	0037, 0087, 0275, 0367, 0388, 0447, 0535, 0554, 0587, 0668, 0746
MGA	0030, 0150, 0178, 0218, 1907
Micromaxx	0037, 0630, 0668, 0808, 1037
Microstar	0808
Midland	0017, 0032, 0039, 0047, 0051
Minato	0037
Minerva	0070, 0108, 0487, 0516, 0535, 0554
Minoka	0037, 0412
Minutz	0021
Mirror	1900
Mistral Electronics	0193
Mitsubishi	0030, 0033, 0036, 0037, 0056, 0087, 0093, 0108, 0150, 0154, 0178, 0179, 0180, 0236, 0250, 0354, 0512, 0535, 0556, 0817, 0836, 0868, 1037, 1250, 1917
Mivar	0216, 0217, 0290, 0291, 0292, 0516, 0609
Monaco	0009
Monivision	0700, 0843
Morgan's	0037
Motorola	0055, 0093
MTC	0030, 0056, 0060, 0216, 0370, 0512
MTEC	0032
Mudan	0009, 0051, 0208, 0226, 0264, 0412, 0817
Multibroadcast	0193
Multistandard	0102
Multitec	0037, 0486, 0668, 1037
Multitech	0009, 0037, 0102, 0180, 0216, 0217, 0247, 0264, 0486
Murphy	0039, 0163, 0216
Musikland	0218, 0247

Brand	Codes
Myryad	0556
NAD	0156, 0178, 0361, 0866
Naiko	0037, 0606
Nanbao	0009, 0264, 0412, 0848, 1910
Nansheng	0264, 0412, 0817
NAT	0214, 0226
National	0051, 0055, 0208, 0214, 0226, 0227, 0508
NEC	0009, 0011, 0030, 0036, 0046, 0051, 0053, 0056, 0154, 0156, 0165, 0170, 0178, 0186, 0217, 0264, 0374, 0412, 0455, 0497, 0499, 0508, 0603, 0704, 0817, 1170, 1270, 1704
Neckermann	0037, 0087, 0191, 0200, 0247, 0327, 0370, 0411, 0418, 0505, 0554, 0556
NEI	0037, 0337, 0371
Nesco	0179, 0247
Netsat	0037
Network	0032, 0337
Neufunk	0009, 0037, 0218, 0556, 0610, 0714
New Tech	0009, 0037, 0217, 0448, 0556
New World	0218
Newave	0009, 0092, 0093, 0178, 0721
Nicamagic	0216
Nikkai	0009, 0032, 0035, 0036, 0037, 0072, 0216, 0217, 0218, 0264, 0337
Nikko	0030, 0092, 0178
Nikon	0848, 1910
Noblex	0037, 0154, 0264
Nobliko	0070, 0102, 0216
Nogamatic	0109, 0196, 0399, 0501
Nokia	0163, 0179, 0208, 0339, 0346, 0361, 0374, 0473, 0480, 0548, 0606, 0610, 0631, 1912

Norcent	0748, 0824	Pacific	0519, 0556, 0714, 0807, 1037, 1137, 1237	Philips	0000, 0009, 0012, 0017, 0020, 0024, 0027, 0030, 0032, 0037, 0043, 0051, 0054, 0056, 0087, 0092, 0108, 0178, 0186, 0187, 0193, 0200, 0238, 0361, 0374, 0554, 0556, 0570, 0690, 0721, 0774, 1154, 1454, 0499	Protech	0009, 0037, 0102, 0217, 0247, 0264, 0337, 0418, 0486, 0668
Nordic	0217	Pael	0216			Proton	0001, 0003, 0009, 0030, 0039, 0178, 0466, 0644
Nordmende	0037, 0109, 0195, 0196, 0198, 0399, 0501, 0560, 0714	Palladium	0037, 0247, 0370, 0411, 0418, 0519, 0630, 0655, 1137, 1237			ProVision	0037, 0556
Normerel	0037	Palsonic	0001, 0037, 0072, 0217, 0218, 0264, 0284, 0377, 0418, 0448, 0698, 0773, 0779			Pulsar	0017
Novak	0012					Pye	0012, 0037, 0087, 0374, 0412, 0554, 0556
Novatronic	0037, 0105, 0374			Phoenix	0037, 0087, 0216, 0486		
NTC	0092	Panama	0037, 0217, 0247, 0264	Phonola	0012, 0037, 0087, 0193, 0216	Pymi	0009
NU-TEC	0698	Panasonic	0037, 0051, 0054, 0055, 0108, 0163, 0208, 0214, 0226, 0227, 0250, 0361, 0367, 0508, 0516, 0548, 0650, 1210, 1310, 1410, 1650, 1651, 1919, 1924, 1927, 1930, 1941, 1946, 1947			Qingdao	0051, 0208, 0226, 0264, 0412, 0817
Oceanic	0163, 0208, 0361, 0400, 0473, 0548			Pilot	0030, 0039, 0712		
Odeon	0264			Pioneer	0011, 0037, 0038, 0109, 0163, 0166, 0361, 0428, 0486, 0512, 0679, 0760, 0866	Quadra Vision	0400
Okano	0009, 0037, 0072, 0370					Quadral	0218
Omega	0264					Quasar	0009, 0051, 0055, 0165, 0247, 0250, 0650, 1919, 1924
Omni	0780			Pionier	0370, 0486		
Onking	0280	Panavision	0037, 0411	Plantron	0009, 0037, 0264		
Onwa	0102, 0180, 0218, 0371, 0433, 0581, 0602	Panda	0009, 0051, 0208, 0226, 0264, 0412, 0508, 0698, 0706, 0780, 0817, 0821, 0826, 0848, 1910	Playsonic	0217, 0714, 0715	Quelle	0011, 0037, 0070, 0074, 0084, 0104, 0200, 0327, 0328, 0361, 0505, 0512, 0535, 0554, 0668
Opera	0037			Policom	0109, 0501		
Optimus	0154, 0166, 0250, 0650, 1913, 1924, 1927			Polytron	0282, 0697		
				Poppy	0009		
		Pathe Cinema	0163, 0216, 0238	Portland	0039, 0092, 0374	Questa	0032, 0036
Optonica	0093, 0165	Pathe Marconi	0109, 0196, 0198, 0399, 0501	Powerpoint	0037, 0487	R-Line	0037
Orbit	0037			Prandoni-Prince	0361, 0516	Radialva	0218, 0337
Orion	0011, 0037, 0102, 0177, 0179, 0235, 0236, 0294, 0355, 0412, 0443, 0463, 0516, 0556, 0655, 0714, 1905, 1911, 1929, 1954	Pausa	0009	Premier	0009, 0264	Radiola	0012, 0037, 0217, 0556
		Penney	0003, 0021, 0027, 0030, 0032, 0039, 0047, 0051, 0056, 0060, 0156, 0178, 1347, 1907, 1919, 1926	Prima	0009, 0264, 0303, 0412, 0519, 0761, 0783, 0807, 0815, 0817, 1933	Radiomarelli	0037, 0087, 0516
						RadioShack	0030, 0032, 0037, 0039, 0047, 0056, 0154, 0165, 0178, 0180, 1904, 1920
Orline	0037, 0218			Princeton	0700, 0717		
Ormond	0668, 1037	Perdio	0037, 0072, 0163, 0216, 0282	Prinz	0072, 0194, 0361	Radiotone	0009, 0037, 0264, 0412, 0428, 0579, 0648, 0668
Orsowe	0516			Prism	0051		
Osaki	0032, 0037, 0072, 0217, 0218, 0264, 0272, 0355, 0374, 0412, 0493, 0556	Perfekt	0037	Profex	0009, 0163, 0361	Rank	0070
		Pershin	0400	Profi	0009	Rank Arena	0036, 0753, 0796
		Phase	0032	Profitronic	0037, 0102	Ranser	0001
Osio	0037, 0290	Philco	0020, 0030, 0032, 0037, 0054, 0056, 0074, 0084, 0087, 0145, 0178, 0180, 0186, 0247, 0370, 0418, 0463, 0628, 0774, 1661, 1911	Proline	0012, 0037, 0072, 0411, 0625, 0630, 0634	RBM	0070
Oso	0218					RCA	0000, 0030, 0038, 0047, 0051, 0060, 0090, 0092, 0093, 0178, 0560, 0618, 0625, 0679, 0702, 1047, 1147, 1247, 1347, 1447, 1454, 1547, 1907, 1917, 1919, 1922, 1948, 1953, 1958
Osume	0032, 0036, 0037, 0072, 0157, 0218			Proscan	0047, 1347, 1447, 1922		
				Prosco	0156		
Otto Versand	0036, 0037, 0093, 0109, 0191, 0217, 0226, 0235, 0247, 0294, 0303, 0361, 0505, 0512, 0535, 0554, 0556			Prosonic	0037, 0214, 0216, 0217, 0370, 0371, 0374, 0579, 0668, 0714		
		Philex	0193				
		Philharmonic	0217				

Realistic	0030, 0032, 0039, 0056, 0154, 0165, 0178, 0180	Samsung	0009, 0030, 0032, 0037, 0039, 0056, 0060, 0072, 0090, 0092, 0093, 0154, 0156, 0163, 0178, 0179, 0208, 0216, 0217, 0226, 0264, 0290, 0370, 0448, 0519, 0556, 0587, 0618, 0644, 0702, 0766, 0774, 0812, 0814, 0817, 0821, 1060, 1237, 1903	SEG	0009, 0036, 0037, 0102, 0216, 0217, 0218, 0264, 0668, 1037, 1437	Siesta	0370
Recor	0037, 0418			SEI	0037, 0087, 0102, 0163, 0177, 0206, 0294, 0516	Signature	0016
Rectiligne	0037					Silva	0037, 0216, 0361, 0648
Rediffusion	0036, 0346, 0361, 0548			Sei-Sinudyne	0037, 0087, 0102, 0206, 0294, 0516	Silver	0036, 0179, 0361, 0455, 0715
Reflex	0037, 0668, 1037					Simpson	0186, 0187
Relisys	0865			Seleco	0163, 0206, 0259, 0264, 0346, 0371, 0411, 0435	Singer	0009, 0037, 0087, 0102, 0335, 0435, 1537
Reoc	0714						
Revox	0037	Samsux	0039	Semivox	0180, 0236, 0463		
Rex	0163, 0206, 0259, 0264, 0411	Sandra	0216, 0217	Semp	0156, 1356	Sinudyne	0037, 0087, 0102, 0163, 0177, 0206, 0235, 0294, 0361, 0516
		Sanjian	0264, 0412	Sencora	0009		
RFT	0037, 0072, 0087, 0264, 0428	Sansei	0451	Sentra	0035		
		Sansui	0037, 0371, 0455, 0463, 0602, 0655, 0706, 0727, 0729, 0861, 1904, 1911, 1929	Serie Dorada	0030, 0056, 0156, 0178	SKY	0037
Rhapsody	0216			Serino	0093, 0455, 0610	Skygiant	0180
Roadstar	0009, 0037, 0218, 0264, 0282, 0418, 1037			Shancha	0264, 0412, 0817	Skysonic	0696, 0753
						Skyworth	0009, 0037, 0264, 0696, 0698, 0727, 0748, 0753, 0817
Robotron	0087	Santon	0009	Shanghai	0009, 0208, 0226, 0264, 0412, 0817, 0848, 1910	SLX	0668
Rowa	0009, 0037, 0216, 0264, 0587, 0698, 0712, 0748, 0817	Sanyo	0011, 0036, 0045, 0072, 0088, 0104, 0108, 0145, 0154, 0156, 0157, 0180, 0208, 0216, 0217, 0227, 0264, 0280, 0339, 0370, 0412, 0508, 0721, 0799,1154, 1907			Smaragd	0487
				Shaofeng	0145, 0227, 0817	Solavox	0032, 0037, 0072, 0163, 0361, 0548
Roxy	0448			Sharp	0009, 0030, 0032, 0036, 0039, 0053, 0093, 0157, 0165, 0186, 0193, 0200, 0256, 0294, 0386, 0491, 0516, 0650, 0688, 0689, 0720, 0760, 0851, 1193, 1917	Sonawa	0218
Royal Lux	0335, 0370, 0412					Songba	0009
Runco	0017, 0030, 0497, 0603					Soniko	0037
Ruyi	0227, 0817					Sonitron	0208, 0217, 0339, 0370
Saba	0087, 0109, 0163, 0196, 0198, 0250, 0335, 0361, 0399, 0501, 0516, 0548, 0560, 0625	Sanyuan	0009, 0093, 0817			Sonneclair	0037
		SBR	0012, 0037, 0043, 0193			Sonoko	0009, 0037, 0217, 0264, 0282
Saccs	0238	Schaub Lorenz	0361, 0374, 0486, 0548, 0606, 0714	Sharper Image	1950	Sonolor	0163, 0208, 0282, 0361, 0400, 0505, 0548
Sagem	0455, 0610			Shen Ying	0003, 0009, 0092, 0179		
Saige	0009, 0817	Schneider	0012, 0037, 0163, 0217, 0218, 0247, 0259, 0303, 0361, 0371, 0394, 0519, 0556, 0648, 0668, 0714, 1037, 1137, 1237, 1904	Shencai	0009, 0145, 0264, 0412	Sontec	0009, 0037, 0294, 0370
Saisho	0009, 0011, 0033, 0177, 0217, 0235, 0264, 0354,0516			Sheng Chia	0009, 0033, 0093, 0179, 0236	Sony	0000, 0011, 0036, 0037, 0102, 0111, 0157, 0353, 0505, 0650, 0834, 1010, 1100, 1505, 1651, 1904, 1925
				Shenyang	0009, 0264, 0696, 0753, 0817		
Saivod	0037, 1037	Scotch	0178	Sherwood	0009	Sound & Vision	0102, 0218, 0374
Sakan	0163	Scotland	0163	Shintoshi	0037		
Salora	0163, 0194, 0208, 0290, 0361, 0480, 0516, 0519, 0548, 0621, 0807, 1237	Scott	0178, 0179, 0180, 0236	Shivaki	0037, 0178, 0443	Soundesign	0178, 0179, 0180, 0186
		Sears	0047, 0054, 0056, 0154, 0156, 0171, 0178, 0179, 1904, 1926	Shorai	0179, 0294	Soundwave	0032, 0037, 0418, 0715
Salsa	0335			Siam	0037	Sowa	0036, 0051, 0060, 0092, 0156, 0178, 0226
Sambers	0102, 0290, 0516			Siarem	0087, 0102, 0516		
Seaway	0634					
Sampo	0009, 0030, 0032, 0036, 0039, 0092, 0093, 0154, 0171, 0178, 0650, 0700, 0721, 1755	Seelver	1037	Siemens	0032, 0037, 0157, 0191, 0195, 0200, 0327, 0328, 0535, 0554	Spectra	0009
						Spectricon	0003
						Squareview	0171
				Siera	0012	Ssangyong	0009, 0032

TV

SSS	0180
Stag	0032
Staksonic	0009
Standard	0009, 0037, 0217, 0218, 0374, 1037
Starlite	0009, 0037, 0180, 0264
Stenway	0218, 0282
Stern	0163, 0206, 0259, 0411
Strato	0009, 0037, 0264
Studio Experience	0843
Sunkai	0294, 0355, 0455, 0487, 0610
Sunstar	0009, 0037, 0264, 0371, 0579
Sunwood	0037
Superla	0516
Supersonic	0208
SuperTech	0009, 0037, 0216, 0218, 0556
Supra	0009, 0039, 0056, 0178
Supre-Macy	0046
Supreme	0000
Susumu	0218, 0335
Sutron	0009
SVA	0587, 0748, 0768, 0865, 0870, 0871, 0872
Sydney	0216, 0217
Sylvania	0020, 0030, 0054, 0171, 1931, 1944
Symphonic	0171, 0180, 1904, 1913
Synco	0000, 0036, 0060, 0092, 0093, 0178, 0451
Sysline	0037
Sytong	0216
T + A	0447
T+A	0447
Tacico	0009, 0092, 0178, 0179
Tactus	0272
Tai Yi	0009
Taishan	0009, 0374, 0817
Tandberg	0367
Tandy	0039, 0072, 0093, 0163, 0217, 0218

Tashiko	0032, 0033, 0036, 0043, 0092, 0163, 0216, 0217, 0650, 0721
Tatung	0003, 0009, 0011, 0036, 0037, 0051, 0054, 0055, 0060, 0072, 0154, 0156, 0217, 0272, 0502, 0516, 0621, 0629, 1156, 1356, 1756
TCL	0412, 0698, 0727, 0806, 0826, 1035
TCM	0714, 0808
Teac	0009, 0037, 0170, 0171, 0178, 0217, 0264, 0282, 0412, 0418, 0455, 0512, 0668, 0686, 0698, 0706, 0712, 0714, 0721, 0755, 1037, 1437, 1668, 1724, 1755, 1904, 1909, 1913, 1932, 1949
Tec	0009, 0037, 0217, 0247, 0259, 0337
Tech Line	0037, 0668
Techica	0218
Technics	0051, 0250, 0650
TechniSat	0556, 0655
Technol Ace	0179
Techview	0847
Techwood	0003, 0051, 0056
Tecnimagen	0556
Teco	0009, 0036, 0051, 0092, 0093, 0178, 0218, 0264, 0280, 0653
Tedelex	0009, 0208, 0217, 0418, 0606, 1537
Tek	0795
Teknika	0016, 0039, 0054, 0056, 0060, 0092, 0150, 0179, 0180, 0186
Teleavia	0109, 0196, 0399, 0501
Telecor	0037, 0163, 0217, 0218, 0259, 0284, 0394
Telefunken	0037, 0056, 0073, 0074, 0084, 0101, 0109, 0196, 0262, 0335, 0346, 0486, 0501, 0625, 0698, 0702, 0712

Telefusion	0037
Telegazi	0037, 0163, 0218, 0259, 0264, 0284
Telesonic	0037
Telestar	0009, 0037, 0579
Teletech	0009, 0037, 0247, 0337, 0668, 1037
Teleton	0036, 0186, 0206, 0217, 0259
Televideon	0163, 0216
Teleview	0037
Televiso	0400
Temco	0294
Tempest	0009
Tennessee	0037
Tensai	0009, 0037, 0104, 0105, 0217, 0218, 0247, 0294, 0371, 0374, 0377, 0715
Tenson	0009
Tera	0030, 0466
Tevion	0037, 0648, 0668, 0714, 1137
Texet	0009, 0216, 0217, 0218, 0374
Thomas	1904
Thomson	0037, 0109, 0196, 0198, 0335, 0399, 0501, 0560, 0625, 1447
Thorn	0035, 0036, 0037, 0072, 0073, 0074, 0084, 0104, 0109, 0190, 0192, 0193, 0238, 0272, 0335, 0361, 0499, 0502, 0505, 0512, 0535
Thorn-Ferguson	0073, 0190, 0192, 0193, 0238, 0499
Tiane	0093, 0817
TMK	0056, 0177, 0178
TNCi	0017
Tobo	0009, 0264, 0412, 0748
Tokai	0009, 0037, 0072, 0163, 0217, 0337, 0374, 0448, 0668
Tokaido	1037
Tokyo	0035, 0216, 0303, 0448
Tomashi	0218, 0282
Tongguang	0264, 0412

Tongtel	0780
Tophouse	0180
Toshiba	0009, 0035, 0036, 0060, 0070, 0093, 0102, 0109, 0145, 0154, 0156, 0195, 0217, 0227, 0243, 0264, 0412, 0502, 0508, 0618, 0644, 0650, 0698, 0702, 0718, 0767, 0821, 0832, 0845, 1156, 1256, 1356, 1508, 1656, 1704, 1918, 1935, 1936, 1945
Totevision	0039
Towada	0217
Toyoda	0009, 0264, 0371
Trakton	0009, 0217, 0264
Trans Continens	0037, 0217, 0668, 1037
Transonic	0009, 0037, 0264, 0418, 0455, 0512, 0587, 0698, 0712
Transtec	0216
Triad	0556
Trical	0157
Trident	0217, 0516
Tristar	0193, 0218, 0264
Triumph	0177, 0243, 0346, 0516, 0556
Tsoschi	0282
Tuntex	0009, 0030, 0092
TVS	0463
TVTEXT 95	0556
Uher	0037, 0206, 0303, 0374, 0418, 0480, 0486
Ultra	0192
Ultravox	0037, 0087, 0102, 0216, 0247
Unic Line	0037, 0455
United	0037, 0714, 0715
Universal	0027

Universum	0009, 0011, 0032, 0036, 0037, 0070, 0072, 0074, 0084, 0104, 0105, 0109, 0157, 0170, 0177, 0200, 0217, 0247, 0264, 0290, 0294, 0327, 0328, 0346, 0361, 0370, 0411, 0418, 0473, 0480, 0492, 0501, 0505, 0512, 0519, 0535, 0554, 0631, 0668, 0807, 1037, 1237, 1437, 1901	Watson	0009, 0037, 0163, 0218, 0394, 0519, 0579, 0668, 1037, 1237, 1437	Zanussi	0206, 0264

Continuing columns:

Column 1

Universum	0009, 0011, 0032, 0036, 0037, 0070, 0072, 0074, 0084, 0104, 0105, 0109, 0157, 0170, 0177, 0200, 0217, 0247, 0264, 0290, 0294, 0327, 0328, 0346, 0361, 0370, 0411, 0418, 0473, 0480, 0492, 0501, 0505, 0512, 0519, 0535, 0554, 0631, 0668, 0807, 1037, 1237, 1437, 1901
Univox	0037, 0087, 0163, 0337
V Inc.	0864, 1756
V7	1755
Vector Research	0030
Vestel	0037, 0217, 0556, 0668, 1037
Vexa	0009, 0037
Vibrant	0272
Victor	0036, 0053, 0250, 0650, 0653
Videologic	0216, 0218
Videosat	0247
VideoSeven	1755
VideoSystem	0037
Videotechnic	0217
Vidikron	0054
Vidtech	0036, 0178
Viewsonic	0857, 0864, 1755
Viking	0046
Visiola	0216
Vision	0032, 0037, 0072, 0217, 0264
Vistar	0206
Vortec	0037
Voxson	0087, 0163, 0178, 0418
Waltham	0037, 0109, 0217, 0418, 0668
Wards	0000, 0016, 0017, 0020, 0021, 0024, 0027, 0030, 0047, 0051, 0054, 0055, 0056, 0060, 0111, 0154, 0156, 0165, 0166, 0178, 0179, 0180, 0186, 0187, 0866, 1147, 1156, 1347, 1356
Warumaia	0374, 0661

Column 2

Watson	0009, 0037, 0163, 0218, 0394, 0519, 0579, 0668, 1037, 1237, 1437
Watt Radio	0102, 0216
Waycon	0156
Wega	0036, 0037, 0087
Weipai	0009
Weltblick	0217
Wharfedale	0037, 0519, 0556, 0807, 1237
White Westinghouse	0037, 0186, 0216, 0337, 0463, 0623, 1909
Winco	0412
Windsor	0668
Windstar	0282, 0337
Wintel	0714
Xenius	0661
Xiahua	0009, 0264, 0412, 0698, 0773, 0779, 0817
Xianghai	0009
Xiangyang	0264, 0412
Xiangyu	0009
Xihu	0264, 0412, 0817
Xinaghai	0412
Xingfu	0009
Xinghai	0264
Xinrisong	0848, 1910
XLogic	0860
Xrypton	0037
Xuelian	0848, 1910
Yamaha	0030, 0769, 0833, 0839
Yamishi	0037, 0217, 0218, 0282, 0455
Yapshe	0250
Yingge	0009
Yokan	0037
Yoko	0009, 0037, 0216, 0217, 0218, 0247, 0264, 0339
Yongbao	0848, 1910
Yonggu	0009
Yorx	0218
Youlanasi	0817
Yousida	0009, 0848, 1910
Yuhang	0009
Zanela	0238

Column 3

Zanussi	0206, 0264
Zenith	0016, 0017, 0092, 0178, 0463, 1904, 1909, 1911, 1929
Zenor	0339
Zhuhai	0009, 0374
Zonda	0003, 0698, 0779

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LCD TV
TV avec écran LCD

Audiovox	0180, 0802, 0875, 1937
Envision	0813
Hyundai	0849
LG	0856, 1178
Manhattan	0778
Marantz	0855
Panasonic	0650, 1941
Philips	1454
RCA	0047, 1958
Samsung	0766, 0814
Sharp	0093
SVA	0587, 0870, 0871
Sylvania	0171
Techview	0847
Toshiba	0845, 1656
V Inc.	0864
Viewsonic	0857, 0864

PLTV

Plasma TV
TV de plasma
TV avec écran à plasma

Akai	0708, 0812
Albatron	0843
Chun Yun	0843
Conrac	0808
Daewoo	0451, 0661
Digital Life	0872
Fujitsu	0683, 0809, 0853
Gateway	1755, 1756

Column 4

Hanseatic	0808
Hitachi	1481
Hyundai	0803, 0865
L&S Electronic	0808
LG	0037, 0056, 0178, 0856
Marantz	0704
Medion	0808
Micromaxx	0808
Microstar	0808
Mitsubishi	0836
Monivision	0843
NEC	0704, 1704
Norcent	0824
Panasonic	0250, 0650
Philips	0690
Pioneer	0679, 0760
Relisys	0865
Sampo	1755
Sharp	0093
Sony	0000
Studio Experience	0843
SVA	0865
Tatung	1756
TCL	1035
TCM	0808
Teac	0755, 1755
Toshiba	0650, 1704
V Inc.	1756
V7	1755
VideoSeven	1755
Viewsonic	1755
Xenius	0661
Zenith	0178

CAB

Cable box
Receptor de cable
Terminal câble

ABC	0003, 0008, 0011, 0013, 0014, 0017, 0237
Alcatel	0896
Americast	0899
Amstrad	1222
Austar	0012, 0276
Bell & Howell	0014
Bell South	0899

CAB

Birmingham Cable Communications...	0276
British Telecom.....	0003
Cable & Wireless...	1068
Cabletime...........	0448, 0665
Clearmaster	0883
ClearMax............	0883
Comcrypt	0443
Comtec..............	0019
Comtronics	0040
Contec	0019
Coolmax	0883
Daeryung............	0008, 0277, 0477, 0877, 1877
Decsat..............	0423
Digi	0637
Director..............	0476
Dumont..............	0637
Everquest	0040
Filmnet	0443
Foxtel................	1222
France Telecom	0451, 0817, 0896
Funai.................	0019
Galaxi................	0008
GE	0237
Gehua	0476
General Instrument	0003, 0011, 0014, 0276, 0476, 0810
Golden Channel....	1110
GoldStar	0040, 0144
Hamlin...............	0009, 0020, 0273
Hitachi................	0011, 0014
HyperVision.........	0619
Jerrold...............	0003, 0011, 0012, 0014, 0276, 0476, 0810
Kabelvision	0003
LG...................	0040, 0144
Macab...............	0817
Memorex...........	0000
MNET................	0019, 0443
Motorola	0276, 0476, 0810, 1106, 1254, 1376
Mr Zapp.............	0817
Multichoice	0019, 0443
MultiVision	0012
Noos.................	0817
NTL	1060, 1068

NTL Cabletell	0276
Oak	0019
Ono..................	1068
Optimus	0021
Optus	0276, 1060
Pace..................	0237, 1060, 1068, 1877
Panasonic	0000, 0008, 0021, 0040, 0107
Panther	0637
Paragon..............	0000
Philips................	0013, 0286, 0317, 0619, 0817, 1305
Pioneer..............	0144, 0533, 0877, 1021, 1877
Pulsar	0000
PVP Stereo Visual Matrix	0003
Quasar	0000
RadioShack	0883
RCA	0021
Regal	0020, 0273, 0279
Rembrandt	0011
Runco	0000
Sagem	0817
Salora	0000
Samsung	0000, 0040, 0144
Scientific Atlanta ...	0008, 0017, 0237, 0277, 0477, 0877, 1877
Signal	0040
Signature	0011
SL Marx..............	0040
Sony..................	1006
Sprucer	0021
Starcom..............	0003, 0014
Stargate..............	0040
Supercable	0276
Supermax	0883
Tadiran	0040
Tele Danmark	0619, 1016
Tele+1	0443
Telepiu	0443
Teleview.............	0040
Telewest	1068
Thomson	1110
Timeless	0040
Tocom................	0012, 0013
Torx...................	0003
Toshiba	0000

Trans PX.............	0276
Tri-Vision	1257
Tristar	0883
TS	0003
Tudi	0286
United Cable........	0003
US Electronics......	0276
V2	0883
Viewmaster	0883
Vision	0883
Visiopass............	0451, 0817
Vortex View	0883
Zenith................	0000, 0525, 0899

SAT

Satellite receiver
Receptor de satélite
Récepteur Satellite

@sat	1300
ABsat	0123, 0668, 0713, 0832
ADB	1259
AGS	0668, 0710
Akai	0200
Akena	0668
Alba	0455, 0713
Allsat	0200, 1017, 1043
Allsonic	0369
Alltech	0713
Alpha	0668
AlphaStar	0772
Altai	0396
Amitronica	0713
Ampere	0132, 0396
Amstrad	0132, 0345, 0396, 0713, 0742, 0795, 0863, 0868, 0882, 0885, 1317, 1849
Anglo	0713
Ankaro	0369, 0713
AntSat	1017, 1083
Apollo	0455
Arcon	0834, 1043, 1075, 1205
Asat	0200
ASLF	0713
AssCom	0853

Astacom	0668, 0710
Aston	0142, 1129, 1261
Astra	0108, 0607, 0713
Astrastar	0548
Astro	0133, 0173, 0369, 0548, 0607, 0658, 0868, 1099, 1100, 1317
Athena	0668
Atlantic Telephone	0879
Atsat	1300
Aurora	0642, 0879
Austar	0497, 0642, 0863, 0879, 1173, 1225, 1259
Avalon	0396
Axiel	0668, 0710
Axis	0369, 0834, 1111
Beko	0455
Bentley Walker	1017
Best	0369
Blaupunkt	0173
Blue Sky	0713
Boca	0132, 0713, 0794
Boston	0668, 0710
Brand Unknown	0132, 0299, 0713, 0742, 0834, 0885
British Sky Broadcasting	1175, 1848, 1849
Broco	0713
BskyB	1849
BT	0668, 0710
Bubu Sat	0713
Cambridge	0868
Canal Digital	0853
Canal Satellite	0853, 1339
Canal+	0853
Century	0856
CERT	0108
Channel Master	0212
Chaparral	0053, 0209, 0216
Cherokee	0123, 0710
Chess	0157, 0713, 1085
CityCom	0115, 0299, 0607, 1176
Clemens Kamphus	0396, 0834
Cobra	0396
Colombia	0132, 0668
Comag	0132, 1412

Condor	0369, 0607	Engel	0713, 1017	Goldvision	1017	JOK	0710
Connexions	0396	EP Sat	0455	Gooding	0571	JVC	0492, 0571, 0775, 1170, 1775
Conrad	0115, 0369, 0607, 0868	Eurieult	0084, 0882, 0885	Goodmans	0455, 1246, 1284		
Crossdigital	1109	Euro1	1278	Gradiente	0856, 1487	K-SAT	0713
Cryptovision	0455, 0795	Eurocrypt	0108, 0455	Granada	0108, 0455	Kamm	0713
Cyrus	0200	Europa	0607, 0863, 0868	Grandin	0084	KaTelco	1111
D-box	0723, 0873, 1127			Grundig	0173, 0345, 0571, 0750, 0853, 0879, 1150, 1291, 1297, 1849	Kathrein	0114, 0115, 0123, 0173, 0200, 0249, 0658, 0713, 0742, 1057, 1221, 1224
		European	0794				
Daeryung	0396	Europhon	0132, 0299, 0607				
Daewoo	0713, 1111, 1296	Eurosky	0115, 0132, 0299, 0369, 0607, 0868			Kathrein Eurostar	0115
Daumling	0794			Hanseatic	0605, 1099, 1100	Kenwood	0853
Delfa	0863	Eurostar	0115, 0607			Key West	0132, 0794
Deltasat	1075	Eutelsat	0713	Hauppauge	1294	Kiton	0114
Dgtec	1242, 1542	Expressvu	0775, 1775	HDT	1011	Klap	0668, 0710
Digatron	1294	Fast	1901	Helium	0607	Konig	0607
Digenius	0299, 1161	Fenner	0157, 0369, 0605, 0668, 0713	Hirschmann	0108, 0173, 0299, 0369, 0396, 0573, 0607, 0710, 0868, 0882, 1085, 1111	Koscom	0834, 1043
DigiQuest	0863					Kreiling	0114, 0249, 0658
DigiSat	0868	Ferguson	0455, 0711				
DigitAll World	1227	Fidelity	0868			Kreiselmeyer	0173
Digiturk	1076	Finlandia	0108, 0455	Hitachi	0455, 0489, 0491, 0819, 1250	L&S Electronic	0132, 0369, 1043
DirecTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819,1076, 1109, 1142, 1392, 1442, 1443, 1444, 1639,1640, 1749, 1856	Finlux	0108, 0455, 0573				
		Flair Mate	0713	Homecable	0238	Labgear	1296
		Force	1101, 1194	Houston	0396, 0668	LaSAT	0115, 0132, 0157, 0299, 0369, 0607
		Force NO AS	1101, 1194	Hansel & Gretel	0132		
		Fortec Star	1017, 1083	HTS	0775, 1775		
Discoverer	0605	Foxtel	0497, 0879, 1173, 1176, 1225	Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Legend	0269
Discovery	0668, 0710					Lenco	0115, 0369, 0607, 0713
Diseqc	0710			Humax	0863, 1176		
Dish Network System	0775, 1005, 1170, 1505, 1775	Fraba	0868	Huth	0132, 0607, 0794, 1017, 1075, 1143	Lenson	0868
		Fracarro	0668, 0871			LG	1075, 1226
		Freecom	0868			Lifesat	0132, 0157, 0299, 0369, 0605, 0713, 1043
Dishpro	0775, 1005, 1505, 1775	Freesat	0882	Hwalin	0885		
		Fresat	0885	Hyundai	1011, 1075		
Distratel	0084, 0885, 1205	FTEmaximal	0369, 0713, 0863	ID Digital	1176	Logix	1017, 1075
				IEEC	0605	Lorenzen	0132, 0299, 0607, 0742, 0794, 0867, 1161, 1294
DMT	1075	Fuba	0108, 0115, 0173, 0299, 0369, 0396, 0573, 1161	Imex	0084		
DNT	0200, 0396			Indovision	1487		
Dream Multimedia	1237			Ingelen	0396, 0882	Lupus	0369
Dune	0369	Galaxis	0115, 0369, 0834, 0853, 0863, 1101, 1111	Innova	0099	Luxor	0108, 0345, 0573, 0868
Echostar	0159, 0167, 0269, 0280, 0396, 0610, 0668, 0713, 0775, 0853, 0871, 1005, 1086, 1170, 1200, 1505, 1775			International	0132		
				Interstar	1017	Magnavox	0722, 0724
		Garnet	1075	Intervision	0607	Manata	0132, 0668, 0710, 0713
		GbSAT	1214	InVideo	0871		
		GE	0566	IQ	0210	Manhattan	0455, 0834, 1017, 1083
		General Instrument	0869	IQ Prism	0210		
Einhell	0132, 0713, 0794, 0868	GF	0834, 1043	Irdeto Technology	0879	Marantz	0200
		GF Star	1043	ISkyB	1487	Maspro	0173, 0571, 0713, 0750
Elap	0713, 1129	GOD Digital	0200	Italtel	0871		
Elsat	0713	GOI	0775, 1775	ITT	0108	Matsui	0173, 0571, 0710
Elta	0200, 0369	Gold Box	0853	ITT Nokia	0455, 0573, 0723, 0873		
Emme Esse	0369, 0871	Goldbox	0292, 0853			Matsushita	0340, 0500
eMTech	1214			Janeil	0152	Max	0607
						MB	0605
						Mediacom	1206

SAT

Brand	Code(s)
MediaSat	0292, 0853, 0868
Medion	0132, 0299, 0369, 0713, 1043, 1075
Mega	0200
Memorex	0269, 0724
Metronic	0084, 0123, 0713, 0885, 1205, 1215, 1282, 1283
Metz	0173
Micro	0607, 0713, 0868
Micromaxx	0299, 0369
Microtec	0713
Minerva	0571
Mitsubishi	0455, 0491, 0749
Morgan's	0132, 0200, 0713, 0794
Motorola	0869
Multichoice	0642, 0879
Multitec	0157
Myryad	0200
Mysat	0713
NEC	0496, 1270
Netgem	1322
Netsat	0099, 1487
Neuhaus	0607, 0713, 0834, 0868
Neusat	0713, 0834
Neveling	1161
Newton	0396
Next Level	0869
NextWave	1143, 1227
Nikko	0200, 0713
Nokia	0108, 0455, 0573, 0723, 0751, 0853, 0873, 1023, 1127, 1223, 1723
Nordmende	0455
OctalTV	1505
Okano	0668
OnDigital	0133, 0241, 0751
Opentel	1412
Optex	0834, 1043, 1283
Optus	0879, 1143
Orbitech	0114, 0157, 0548, 0834, 0868, 1099, 1100
Origo	0497
OSAT	0345
Ouralis	1205
Oxford	0668
Pace	0123, 0200, 0241, 0455, 0497, 0720, 0791, 0795, 0853, 0867, 1175, 1323, 1423, 1487, 1849
Pacific Satellite	0834
Packsat	0710
Palcom	0299, 1161
Palladium	0396, 0571, 0868
Palsat	0157, 0868
Panasat	0615, 0879
Panasonic	0152, 0247, 0340, 0455, 0500, 0701, 1304, 1320, 1849
Panda	0108, 0173, 0455, 0607, 0834
Pansat	1011
Patriot	0132, 0668, 0710
Paysat	0724
Philips	0099, 0133, 0173, 0200, 0292, 0455, 0571, 0668, 0710, 0722, 0724, 0749, 0750, 0853, 0856, 1076, 1114, 1142, 1442, 1487, 1749
Phonotrend	0863, 1017, 1200
Pioneer	0292, 0329, 0352, 0853
Planet	0396, 0871
Polytron	0396
Preisner	0132, 0396, 0794, 1101, 1317
Premiere	0292, 0853, 0873
Prima	0795
Primacom	1111
Profile	0668, 0710
Promax	0455
Prosat	1173, 1225
Proscan	0392, 0566
Prosonic	0742
Pye	0571
Pyxis	0834
Quadral	0369, 0668, 0710
Quelle	0115, 0299, 0607, 0742
Radiola	0200
RadioShack	0869
Radix	0396, 0882, 1317
RCA	0143, 0392, 0566, 0855, 1392
Realistic	0052
Rebox	1214
Red Star	0369
RFT	0200
Roadstar	0713, 0853
Rover	0369, 0713
Saba	0115, 0607, 0710, 0885
Sabre	0455
Sagem	0820, 1114, 1253, 1307
Salora	0108
Samsung	0853, 0863, 1017, 1109, 1206, 1243, 1244, 1276, 1293
Sanyo	0493, 1219
SAT	0868
Sat Control	1300
Sat Cruiser	1143
Sat Partner	0868
Sat Team	0713
Satcom	0605, 0607
SatCruiser	1143
Satec	0713, 0834
Satelco	0369
Satplus	0157
Satstation	1083
Schneider	0157, 0668, 0710, 1206, 1901
Schwaiger	0132, 0157, 0605, 0607, 0863, 0885, 1075, 1083, 1111
SCS	0115, 0299
Sedea Electronique	0132
Seemann	0396
SEG	0114, 0369, 0605, 0742, 1075, 1087
Seleco	0871
Septimo	0885, 1205
Serino	0610
Sharp	0494
Siemens	0173
Silva	0299
Skantin	0713
SKR	0713
SKY	0099, 0711, 0856, 1014, 1175, 1487, 1848, 1849, 1856
Sky Television	1014
SKY+	1175
Skymaster	0157, 0605, 0713, 1075, 1085, 1200
Skymax	0200
Skyplus	1412
SkySat	0114, 0157, 0605, 0607, 0713
SL	0132, 0742
SM Electronic	0157, 0713, 1200
Smart	0115, 0132, 0396, 0713, 0794, 0882, 1101, 1273, 1317
Sony	0163, 0292, 0294, 0639, 0853, 1639, 1640, 1849
Star	1487
Star Choice	0869
Star Trak	0180
Starlite	0200
Strong	0132, 0369, 0853, 0879, 1158, 1300
STS	0210
Sunny Sound	0369
Sunsat	0713
Sunstar	0132, 0369, 0642, 0794
Supermax	1143
Supernova	1487
Tantec	0455
Tarbs	1225
Tatung	0455
TCL	1143
Teac	1225, 1227, 1322
Tecatel	1200
TechniSat	0114, 0157, 0396, 0455, 0548, 0863, 0868, 1099, 1100
Technosat	1143, 1206
Technowelt	0132, 0607
Techsan	1017
Techwood	0114
tekComm	1017
Telasat	0115, 0605, 0607
Teleciel	1043
Telefunken	0710

Teleka	0396, 0607, 0750, 0834, 0868	Viasat	1323
Telesat	0605	Victor	0492
Telestar	0114, 0157, 0868, 1099, 1100	Visiosat	0114, 0142, 0710, 0713, 1129
Telesystem	0396	Viva	0856
Teletech	0114	Voom	0869
Televes	0132, 0455, 0868, 1214	Welltech	0157
Televisa	1487	Wetekom	0157, 0605, 0868
Tempo	1143	Wewa	0455
Tevion	0713	Wisi	0173, 0299, 0396, 0455, 0607, 0868
Thomson	0115, 0292, 0392, 0455, 0607, 0668, 0710, 0711, 0713, 0820, 0853, 0885, 1046, 1198, 1291	Worldsat	0114, 0123, 0668, 0710
		XCOM	0123, 0668, 0832
		Xcom Multimedia	0668
Thorn	0455	Xrypton	0369
Tioko	0132	Xsat	0123, 0668, 0713, 1323, 1849
Tivo	1142, 1442, 1443, 1444	Yes	1487
Tokai	0200	Zehnder	0114, 0115, 0369, 0742, 1075, 1412
Tonna	0455, 0668, 0713, 0834, 0868	Zenith	0856, 1856
Topfield	1206, 1207	Zinwell	1173, 1225
Toshiba	0082, 0455, 0486, 0749, 0790, 1285, 1749	Zodiac	0396
		Zwergnase	0794
TPS	0820, 1253, 1307		
Triasat	0868		
Triax	0114, 0115, 0200, 0396, 0713, 0853, 0868, 1296,1317		
Turnsat	0713		
Twinner	0713		
UEC	0879		
Uher	0157		
UltimateTV	1392, 1640		
Uniden	0052, 0074, 0076, 0238, 0722, 0724, 0834		
Unisat	0132, 0200		
Universum	0114, 0115, 0173, 0299, 0571, 0607, 0742, 1087,1099		
Van Hunen	1161		
Variosat	0173		
Vega	0369		
Ventana	0200		
Vestel	0114, 0742		
VH-Sat	0299		

VCR

VCR
VCR
VCR

ABS	1972	Calix	0037
Accent	0072	Canon	0035
Admiral	0048, 0209	Carena	0081, 0209
Adventura	0000	Carrefour	0045
Adyson	0072	Carver	0081
Aiko	0278	Casio	0000
Aim	0278	Cathay	0278
Aiwa	0000, 0037, 0124, 0209, 0307, 0348, 0352, 0479	CCE	0072, 0278
		CGE	0000, 0041
Akai	0037, 0041, 0106, 0240, 0315, 0352, 0642	Changhong	0048, 0081
		Cimline	0072
Akiba	0072	Cineral	0278
Akura	0072, 0271	Citizen	0037, 0278
Alba	0000, 0072, 0081, 0209, 0278, 0315, 0348, 0352	Clatronic	0000, 0072
		Colt	0072
		Combitech	0352
Alienware	1972	Condor	0278
Allorgan	0240	Craig	0037, 0047, 0072, 0240, 0271
Allstar	0081		
America Action	0278	Crown	0072, 0271, 0278, 0480
American High	0035		
Amoisonic	0479	Curtis Mathes	0035, 0041, 0060, 0162, 0760
Amstrad	0000, 0072, 0278		
Anam	0037, 0162, 0226, 0240, 0278, 0480, 1037	Cybernex	0240
		CyberPower	1972
		Cyrus	0081
Anam National	0162, 0226, 1162, 1562	Daewoo	0045, 0046, 0104, 0209, 0278, 0352, 0637, 0642
Anitech	0072		
Ansonic	0000	Dansai	0072, 0278
Aristona	0081	Dantax	0352
ASA	0037, 0081	Daytron	0278
Asha	0240	De Graaf	0042, 0046, 0048, 0081, 0104, 0166
Asuka	0037, 0038		
Audiosonic	0278	Decca	0000, 0041, 0067, 0081, 0209, 0352
Audiovox	0037, 0278		
AVP	0000, 0352	Deitron	0278
Awa	0037, 0043, 0278, 0642	Dell	1972
		Denko	0072
Baird	0000, 0041, 0104, 0106	Denon	0042
		Diamant	0037
Bang & Olufsen	0499	DirecTV	0739
Basic Line	0072, 0104, 0278	Domland	0209
Beaumark	0240	Dual	0000, 0041, 0081, 0278, 0348
Beko	0104		
Bell & Howell	0104	Dumont	0000, 0081, 0104
Bestar	0278		
Black Diamond	0642	Durabrand	0038, 0039
Black Panther	0278	Dynatech	0000
Blaupunkt	0034, 0081, 0162, 0226	Elbe	0038, 0278
Blue Sky	0037, 0072, 0209, 0278, 0348, 0352, 0480, 0642	Elcatech	0072
Bondstec	0072		
Brand Unknown	0104		
Brandt	0041, 0320, 0321		
Brandt Electronic	0041		
Brandt Electronique	0041		
Brinkmann	0209, 0348		
Broksonic	0002, 0121, 0184, 0209, 0348, 0479		
Bush	0000, 0072, 0081, 0209, 0278, 0315, 0348, 0352		

VCR

Electrohome	0037
Electrophonic	0037
Elin	0240
Elsay	0072
Elta	0072, 0278
Emerex	0032
Emerson	0000, 0002, 0035, 0037, 0043, 0045, 0072, 0121, 0184, 0209, 0240, 0278, 0479, 0637, 1593
ESC	0240, 0278
Etzuko	0072
Ferguson	0000, 0041, 0278, 0320, 0321
Fidelity	0000, 0072, 0240, 0352, 0432
Finlandia	0000, 0037, 0042, 0043, 0046, 0048, 0081, 0104, 0106, 0166, 0226, 0384
Finlux	0000, 0042, 0081, 0104
Firstline	0037, 0043, 0045, 0072, 0209, 0278, 0348, 0480
Fisher	0046, 0047, 0104
Flint	0209
Frontech	0072
Fuji	0033, 0035
Fujitsu	0000, 0045
Fujitsu General	0037
Funai	0000, 0593, 1593
Galaxi	0000
Galaxis	0278
Garrard	0000
Gateway	1972
GE	0035, 0048, 0060, 0226, 0240, 0320, 0760
GEC	0081
General	0045
General Technic	0348
Genexxa	0104
Go Video	0432, 0526
GoldHand	0072
GoldStar	0037, 0038, 0209, 0226, 0480

Goodmans	0000, 0037, 0072, 0081, 0209, 0278, 0348, 0352, 0637, 0642
GPX	0037
Gradiente	0000
Graetz	0041, 0104, 0240
Granada	0000, 0037, 0042, 0046, 0048, 0081, 0104, 0226, 0240
Grandin	0000, 0037, 0072, 0209, 0278
Grundig	0034, 0072, 0081, 0226, 0320, 0347, 0348, 0352
Haaz	0348
Hanimex	0352
Hanseatic	0037, 0038, 0081, 0209
Haojie	0240
Harley Davidson	0000
Harman/Kardon	0038, 0081
Harwood	0072
HCM	0072
Headquarter	0046
Hewlett Packard	1972
HI-Q	0047
Hinari	0041, 0072, 0209, 0240, 0278, 0352
Hisawa	0209, 0352
Hischito	0045
Hitachi	0000, 0037, 0041, 0042, 0046, 0081, 0089, 0166, 0240
Hornyphone	0081
Howard Computers	1972
HP	1972
Hughes Network Systems	0042, 0739
Hypson	0000, 0037, 0072, 0209, 0278, 0352, 0480
H÷her	0278
iBUYPOWER	1972
Imperial	0000
Ingersoll	0209, 0240
Inno Hit	0072, 0240
Interbuy	0037, 0072
Interfunk	0081, 0104
Internal	0278, 0637
International	0037, 0278

Intervision	0000, 0209, 0278
IR	0041, 0042, 0045, 0047, 0072, 0081, 0104, 0106, 0209, 0226, 0240, 0348
Irradio	0037, 0072, 0081
ITT	0041, 0046, 0104, 0106, 0240, 0384
ITV	0037, 0278
JBL	0278
Jensen	0041
JMB	0209, 0348, 0352
JVC	0041, 0045, 0067, 0081, 0384
Kaisui	0072
Karcher	0081, 0278
KEC	0037, 0278
Kendo	0072, 0106, 0209, 0278, 0315, 0348
Kenwood	0038, 0041, 0067, 0384
KIC	0000
Kimari	0047
Kioto	0348
KLH	0072
Kneissel	0037, 0209, 0278, 0348, 0352
Kodak	0035, 0037
Kolin	0041, 0043
Korpel	0072
Kuba	0047
Kuwa	0226
Kyoto	0072
Lenco	0278
Leyco	0072
LG	0037, 0038, 0042, 0045, 0209, 0480, 1037
Lifetec	0209, 0348
Lloyd's	0000
Loewe	0037, 0081, 0162, 1562
Logik	0072, 0106, 0209, 0240
Lux May	0072
Luxor	0043, 0046, 0047, 0048, 0104, 0106, 0315
LXI	0037
M Electronic	0000, 0038
Magnasonic	0278, 0593

Magnavox	0000, 0035, 0039, 0081, 0149, 0563, 0593
Magnin	0240
Manesth	0045, 0072, 0081, 0209
Marantz	0035, 0038, 0081, 0209
Mark	0000, 0278
Marta	0037
Master's	0278
Matsui	0209, 0240, 0348, 0352
Matsushita	0035, 0162, 0226, 1162
Media Center PC	1972
Mediator	0081
Medion	0209, 0348, 0352
MEI	0035
Melectronic	0000, 0037, 0038
Memorex	0000, 0035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0307, 0348, 0479, 0569, 1037, 1048, 1162, 1262
Memphis	0072
Metronic	0081
Metz	0037, 0081, 0162, 0226, 0347, 0836, 1162, 1562
MGA	0043, 0240
MGN Technology	0240
Micormay	0348
Micromaxx	0209
Microsoft	1972
Migros	0000
Mind	1972
Minolta	0042
Mitsubishi	0000, 0041, 0043, 0048, 0067, 0081, 0480, 0642
Motorola	0035, 0048
MTC	0000, 0240
Multitec	0037
Multitech	0000, 0072
Murphy	0000
Myryad	0081
NAD	0104
National	0226
NEC	0035, 0037, 0038, 0041, 0048, 0067, 0104, 0278

Neckermann	0081	Philips	0000, 0035, 0081, 0226, 0384, 0563, 0593, 0618, 0739, 1081, 1181	Runco	0039	Singer	0045, 0072, 0271
Nesco	0000, 0072			Saba	0041, 0278, 0320, 0321, 0384, 0494	Sinudyne	0081, 0209, 0352
Neufunk	0209						
Newave	0037			Saisho	0209, 0348	Smaragd	0348
Nikkai	0072, 0278	Phonola	0081	Salora	0043, 0046, 0104, 0106	Sonic Blue	0614, 0616
Nikko	0037	Pilot	0037			Sonneclair	0072
Nikon	0034	Pioneer	0042, 0067, 0081, 0162	Sampo	0037, 0048	Sonolor	0046
Noblex	0240	Polk Audio	0081	Samsung	0045, 0240, 0432, 0760, 1014	Sontec	0037
Nokia	0041, 0042, 0046, 0048, 0081, 0104, 0106, 0240, 0278, 0315	Portland	0278, 0637			Sony	0000, 0032, 0033, 0034, 0035, 0106, 0636, 1032, 1972
		Prinz	0000	Sanky	0039, 0048		
		Profitronic	0081, 0240	Sansei	0048		
		Proline	0000, 0278, 0320, 0321, 0642	Sansui	0000, 0041, 0067, 0072, 0106, 0209, 0271, 0348, 0479		
Nordmende	0041, 0067, 0320, 0321, 0384, 0494					Soundwave	0037, 0209
		Proscan	0060, 0760			Ssangyong	0072
Northgate	1972	Prosco	0278	Sanyo	0046, 0047, 0048, 0067, 0104, 0159, 0240	Standard	0278
NU-TEC	0209	Prosonic	0209, 0278			Stern	0278
Oceanic	0000, 0041, 0046, 0048, 0081, 0104, 0106	Protec	0072			Strong	0271
		Protech	0081	Saville	0240, 0278, 0352	STS	0042
		ProVision	0278			Sunkai	0209, 0278, 0348
Okano	0072, 0209, 0278, 0315, 0348	Pulsar	0039	SBR	0081		
		Pye	0081	Schaub Lorenz	0000, 0041, 0104, 0106, 0315, 0642	Sunstar	0000
		Qisheng	0060			Suntronic	0000
Olympus	0035, 0226	Quarter	0046			Sunwood	0072
Optimus	0037, 0048, 0104, 0162, 0432, 0593, 1048, 1062, 1162, 1262	Quartz	0046	Schneider	0000, 0037, 0042, 0072, 0081, 0240, 0278, 0352,	Supra	0037
		Quasar	0035, 0162, 0278, 1162			Sylvania	0000, 0035, 0043, 0081, 0593, 1593
		Quelle	0081	Scott	0043, 0045, 0121, 0184		
Orbit	0072	Radialva	0037, 0048, 0072, 0081	Sears	0000, 0035, 0037, 0042, 0046, 0047, 0104	Symphonic	0000, 0593, 1593
Orion	0002, 0121, 0184, 0209, 0348, 0352, 0479					Systemax	1972
		Radiola	0081			T+A	0162
		Radionette	0037	Seaway	0278	Tagar Systems	1972
Orson	0000	RadioShack	0000, 0037, 1037	SEG	0072, 0081, 0240, 0278, 0637, 0642	Taisho	0209
Osaki	0000, 0037, 0072					Tandberg	0278
		Radix	0037	SEI	0081	Tandy	0000, 0104
Osume	0072	Randex	0037	Sei-Sinudyne	0081	Tashiko	0000, 0037, 0048, 0081, 0240
Otake	0209	Rank	0041	Seleco	0037, 0041, 0384		
Otto Versand	0081	Rank Arena	0041			Tatung	0000, 0041, 0043, 0045, 0048, 0067, 0081, 0209, 0348, 0352
Pace	0352	RCA	0000, 0035, 0042, 0048, 0060, 0106, 0149, 0226, 0240, 0320, 0760, 0880	Semivox	0045, 0209		
Pacific	0000			Semp	0045		
Palladium	0037, 0041, 0072, 0209			Sentra	0072		
				Setron	0072	TCM	0348
Palsonic	0000, 0072, 0642			Sharp	0037, 0048, 0209, 0569, 0848, 1048	Teac	0000, 0037, 0041, 0072, 0278, 0307, 0526, 0593, 0637, 0642
Panasonic	0035, 0162, 0226, 0616, 0836, 1062, 1162, 1262, 1562, 1662	Realistic	0000, 0035, 0037, 0046, 0047, 0048, 0104				
				Shinco	0000		
				Shintom	0072, 0104	Tec	0072
Pathe Cinema	0043	Reoc	0348	Shivaki	0037	Tech Line	0072
Pathe Marconi	0041	ReplayTV	0614, 0616	Shogun	0240	Technics	0035, 0162, 0226, 1162
Penney	0035, 0037, 0038, 0042, 0240	Rex	0041, 0384	Siemens	0037, 0046, 0081, 0104, 0320, 0347		
		RFT	0072			TechniSat	0348
Pentax	0042	Ricoh	0034			Teco	0035, 0037, 0038, 0041, 0048
Perdio	0000, 0209	Roadstar	0037, 0072, 0081, 0240, 0278	Siera	0081		
Philco	0000, 0035, 0038, 0072, 0209, 0226, 0479			Silva	0037		
				Silver	0278	Tedelex	0037, 0348
		Royal	0072				

VCR

Teknika	0000, 0035, 0037
Teleavia	0041
Telefunken	0041, 0209, 0278, 0320, 0321, 0384, 0494
Telestar	0037
Teletech	0000, 0072, 0278
Tenosal	0072
Tensai	0000, 0072, 0278
Tevion	0348
Texet	0278
Thomas	0000
Thomson	0041, 0060, 0067, 0278, 0320, 0321, 0384, 0494, 0722
Thorn	0037, 0041, 0104
Tivo	0618, 0636, 0722, 0739, 1503
TMK	0240
Tokai	0037, 0041, 0072, 0104
Topline	0348
Toshiba	0041, 0043, 0045, 0067, 0081, 0352, 0384, 0432, 1008, 1503, 1972
Totevision	0037, 0240
Touch	1972
Towada	0072
Triad	0278
Uher	0240
Ultravox	0278
Unitech	0240
United Quick Star	0278
Universum	0000, 0037, 0081, 0104, 0106, 0209, 0240, 0348
Vector	0045
Vector Research	0038
Victor	0041, 0067, 0384
Video Concepts	0045
Video Technic	0000
Videomagic	0037
Videosonic	0240
Viewsonic	1972
Villain	0000

Wards	0000, 0033, 0035, 0038, 0039, 0042, 0045, 0046, 0047, 0048, 0060, 0072, 0081, 0149, 0240, 0760
Watson	0081, 0352
Weltblick	0037
Wharfedale	0593
White Westinghouse	0072, 0209, 0278, 0637
World	0348
XR-1000	0000, 0035, 0072
Yamaha	0038, 0041
Yamishi	0072, 0278
Yokan	0072
Yoko	0037, 0072, 0240
Zenith	0000, 0033, 0034, 0039, 0209, 0479, 0637
ZT Group	1972
ZX	0209, 0348, 0352

DVR

Digital Video Recorder (DVR)
DVR
Enregistreur audio numérique

ABS	1972
Alienware	1972
CyberPower	1972
Dell	1972
Gateway	1972
Hewlett Packard	1972
Howard Computers	1972
HP	1972
iBUYPOWER	1972
Media Center PC	1972
Microsoft	1972
Mind	1972
Northgate	1972
Panasonic	0616
Philips	0618, 0739
ReplayTV	0614, 0616
Sonic Blue	0614, 0616
Sony	0636, 1972
Systemax	1972
Tagar Systems	1972
Thomson	0722

Tivo	0618, 0636, 0722, 0739
Toshiba	1972
Touch	1972
Viewsonic	1972
ZT Group	1972

TVDVD

TV/DVD combination
Combinación de TV/DVD
Combinaison TV/DVD

Advent	1933
Apex Digital	1943
Audiovox	1937
Axion	1937
Broksonic	1935
Bush	0698, 1037, 1900
Daewoo	1902
Goodmans	1900
Grundig	1935
Jensen	1933
Konka	1957
Mirror	1900
Panasonic	1941
Prima	1933
RCA	1948, 1958
Samsung	1903
Sylvania	0171
Teac	1949
Toshiba	1935

TVVCR

TV/VCR combination
Combinación de TV/VCR
Combinaison TV/VCR

Aiwa	1904, 1910, 1914
America Action	0180
Audiovox	0180
Broksonic	1905, 1911, 1929
Citizen	1928
Colt	1906
Curtis Mathes	1919

Daewoo	1909, 1921, 1928
Emerson	0236, 1905, 1909, 1911, 1928, 1929
Funai	1904
GE	1907, 1917, 1919, 1922
GoldStar	1926
Goodmans	1909
Hanimex	1908
Harley Davidson	1904
Hinari	1908
Hitachi	1904
JVC	1923
LG	1934
Lloyd's	1904
Magnasonic	1913, 1928
Magnavox	1904, 1913, 1931
Magnin	1907
Memorex	1920, 1924, 1926, 1927
MGA	1907
Mitsubishi	1917
Nokia	1912
Optimus	1913, 1924, 1927
Orion	1905, 1911, 1929
Panasonic	1919, 1924, 1927, 1930
Penney	1907, 1919, 1926
Quasar	1919, 1924
RadioShack	1904, 1920
RCA	1907, 1917, 1919, 1922
Sansui	1904, 1911, 1929
Sanyo	1907
Schneider	1904
Sears	1904, 1926
Sharp	1917
Sony	1904, 1925
Sylvania	1931
Symphonic	1904, 1913
Teac	1904, 1909, 1913, 1932
Thomas	1904
Toshiba	1918, 1936
White Westinghouse	1909
Zenith	1904, 1911, 1929

TVVCRDVD

TV/VCR/DVD combination
Combinación de TV/VCR/DVD
Combinaison TV/VCR/DVD

Akai	1903
Broksonic	1938
Emerson	1944
Orion.................	1954
Panasonic...........	1946, 1947
RCA..................	1953
Sharp	1917
Sylvania	1944
Toshiba..............	1945

CABDVR

Cable/DVR combination
Combinación de cable/DVR
Combinaison Câble/DVR

Americast	0899
General Instrument	0476, 0810
Jerrold...............	0476, 0810
Motorola	0476, 0810, 1106, 1376
Pace	0237, 1877
Pioneer	0877, 1877
Scientific Atlanta ...	0877, 1877
Sony	1006
Supercable	0276
Zenith................	0899

SATDVR

DBS/DVR combination
Combinación de receptor de DBS/DVR
Combinaison récepteur DBS/DVR

@sat	1300
Atsat	1300
British Sky Broadcasting........	1175
Canal Satellite	1339
Comag	1412
Digiturk	1076
Dream Multimedia..	1237
Echostar	0610, 0775, 1170, 1505
Euro1.................	1278
Expressvu	0775
Fast...................	1901
Force NO AS	1194
GbSAT	1214
Grundig	1150
Hughes Network Systems	1142, 1442, 1443, 1444
Humax	1176
Hyundai..............	1011
JVC...................	1170
Kathrein..............	1221, 1224
Opentel	1412
Pace..................	1423
Panasonic	1320
Philips................	1142, 1442
Proscan..............	0392
Radix	1317
RCA	1392
Rebox	1214
Sagem	1253, 1307
Schneider............	1901
SKY	1175, 1848
Skyplus	1412
Sony..................	0639, 1640
Strong................	1158, 1300
Topfield	1206
TPS...................	1253, 1307
Zehnder..............	1075, 1412

DVDDVR

DVD/DVR combination
Combinación de DVD/DVR
Combinaison DVD/DVR

RCA..................	0880
Toshiba	1008, 1503

PROJ

Video projector
Proyector de vídeo
Projecteur vidéo

Ampro	0751
Dwin	0720, 0774
Epson................	0833, 0840
JVC	0683
Marantz..............	1154
Mitsubishi	0868
NEC..................	0497
Panasonic...........	1310, 1410
RCA..................	0047
Runco	0497, 0603
Sanyo................	0799
Sharp	0491, 0688, 0689, 0851
Sony	0353, 0834
Toshiba	0832
Yamaha..............	0833, 0839
Zenith................	0017

DTVA

DTVA
DTVA
DTVA

Daewoo	1296
Grundig	1297
Hauppauge	1294
Labgear	1296
Netgem	1322
Nokia	1723
Pace..................	1323, 1423
Panasonic	1304, 1849
Rebox	1214
Teac	1227, 1322
Triax	1296

AMP

Audio amplifier/tuner
Amplificador de audio/sintonizador
Amplificateur audio/tuner

Bose..................	1629