

APPENDIX H  
: USER'S MANUAL

# TOSHIBA

E: ENGLISH  
F: FRANÇAIS  
S: ESPAÑOL



# OWNER'S MANUAL

## LCD Color Television



COLORSTREAM<sup>®</sup> HD



THEATERWIDE **HD** **HDMI**

Introduction

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Using the remote control

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### Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

# 23HL85

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## Dear Customer,


Thank you for purchasing this Toshiba LCD TV. This manual will help you use the many exciting features of your new LCD TV. **Before operating the TV, please read this manual completely**, and keep it nearby for future reference.


### Safety Precautions

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**



**WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

 The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. **DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.**

 The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

### WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. (See item 20 on page 4.)

### NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 25 and 26 on page 4.

### FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 23HL85 LCD Color Televisions** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

The party responsible for compliance to these rules is:  
Toshiba America Consumer Products, L.L.C.  
82 Totowa Rd. Wayne, NJ 07470.  
Ph: (973) 628-8000

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.

# Introduction

## Welcome to Toshiba

Thank you for purchasing this Toshiba LCD TV. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

The model and serial numbers are on the back of your TV. Write these numbers in the space provided on the front cover of this manual for your records.

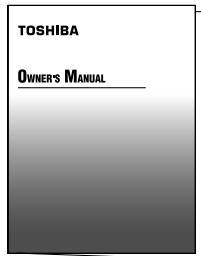
Instructions in this manual are based on using the remote control. You also can use the controls on the TV if they have the same name as those referred to on the remote control.

Please read all the safety and operating instructions carefully, and keep this manual for future reference.

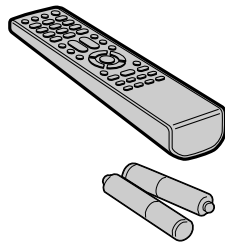
## Supplied accessories

Check that you have the accessories and items shown.

Owner's Manual  
(This book)



Remote control  
Batteries R03 (AAA) × 2



Power cord

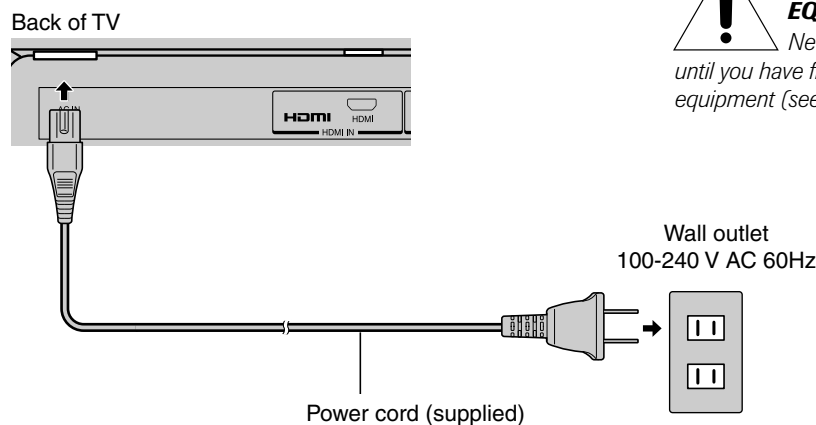


Clip



Use this clip to attach the TV to a wall, pillar, or other immovable structure. See item 20 on page 4.

## Connecting the power cord



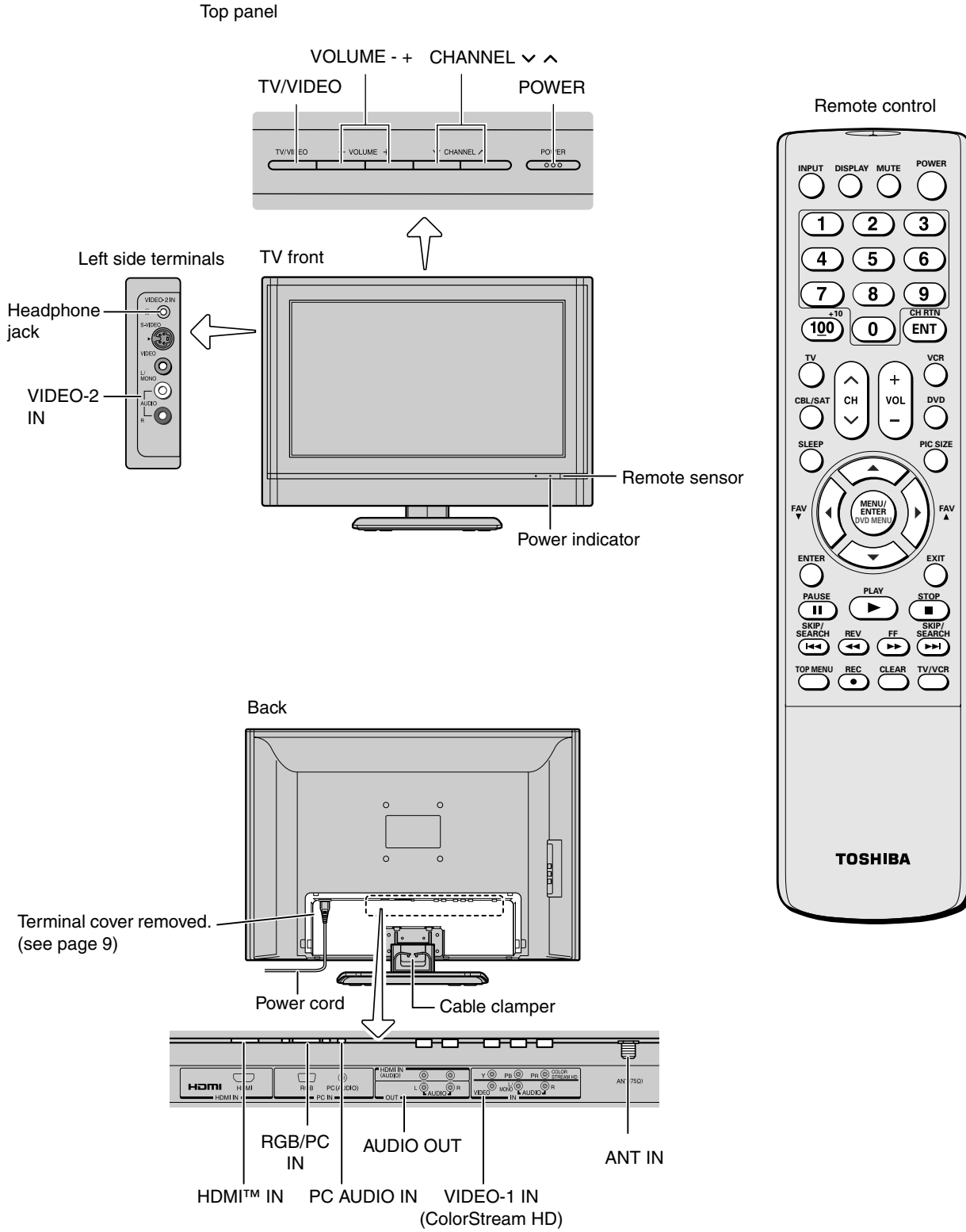
**NOTE: RISK OF EQUIPMENT DAMAGE!**

Never plug in any power cords until you have finished connecting all equipment (see page 10).

\* The power cord supplied with this product is to be used in the United States and Canada only.

## Exploring your new TV

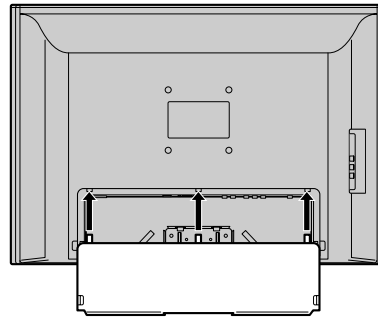
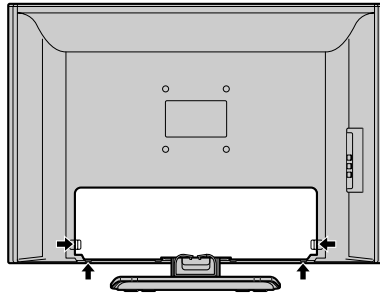
You can operate your TV by using the buttons on the top panel or the remote control. The A/V terminals for connecting other equipment to your TV are on the back panel and side panel (see illustrations below). Also see “Connecting your TV” on pages 10-16.



## Rear terminal cover

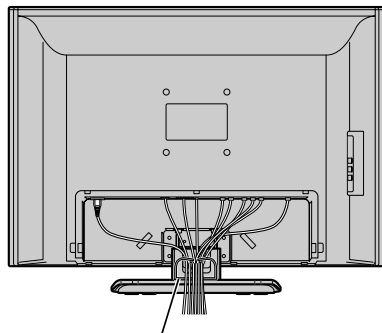
The connection panel is hidden behind the terminal cover.

1. Remove the cover. Release the two hooks on the both sides of the cover.
2. Install cables as necessary.
3. Reinstall the cover. Align the holes on the TV back with the three tabs on the rear terminal cover as shown.
4. Close the cover.



## Cable clamber

The cable clamber can be used to bundle the connection cables (see page 10).



Cable clamber

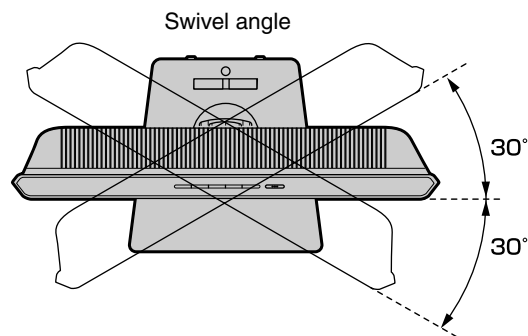


**WARNING: RISK OF  
SERIOUS PERSONAL  
INJURY OR EQUIPMENT  
DAMAGE!**

*Never grasp the cable clamber when moving or lifting the TV. The cable clamber could break, causing the TV to fall.*

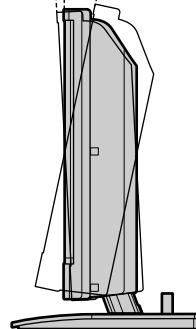
## Adjusting the TV viewing angle

You can adjust the angle of the TV screen.



Tilt angle

3° 12°



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## Connecting your TV

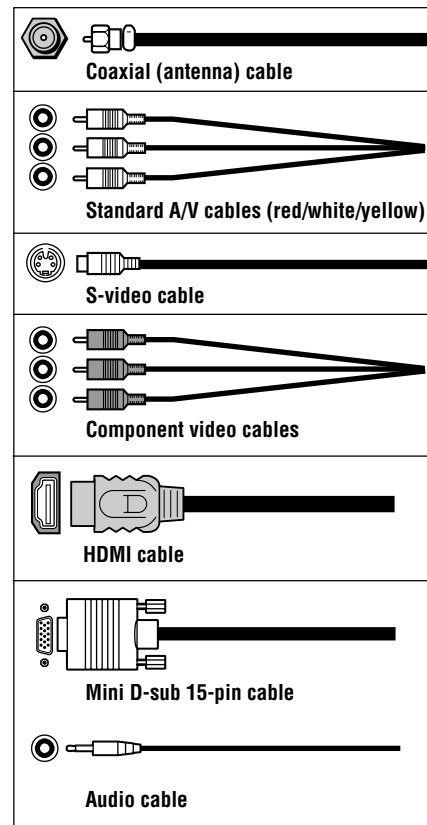
**Note:** All required cables, if not provided with your other devices, can be purchased at many electronics accessory suppliers.

- **Coaxial (F-type) cable** is used for connecting your antenna, cable TV service, and/or cable converter box to the ANT 75 Ω RF input on your TV.
- **Standard A/V cables (composite video)** usually come in sets of three, and are for use with video devices with standard audio and standard (composite) video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.
- **S-video cable** is for use with video devices with S-video output. Separate audio cables are required for a complete connection.
 

**Note:** An S-video cable provides better picture performance than a standard (composite) video cable.
- **Component video cables** come in sets of three and are for use with video devices with component video output. These cables are typically color-coded red, green, and blue. (ColorStream® is Toshiba's brand of component video.) Separate audio cables are required for a complete connection.
 

**Note:** Component video cables provide better picture performance than a standard (composite) video or S-video cable.
- **HDMI cable** is for use with devices with uncompressed HDMI (high-definition multimedia interface) video and compressed audio output. HDMI cable delivers digital audio and video in its native format (see page 14). This cable carries both video and audio information; therefore, separate audio cables are not required for a complete connection.
 

**Note:** HDMI cable provides better picture performance than a standard (composite) video or S-video cable.
- **Mini D-sub 15-pin cable** is for use with a personal computer with an analog RGB (15-pin) output. A separate audio cable is required for a complete connection.

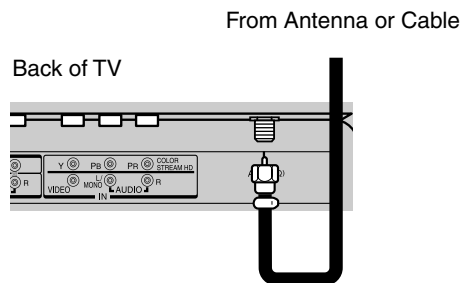


**NOTE: RISK OF EQUIPMENT DAMAGE!**

Never plug in any power cords until you have finished connecting all equipment.

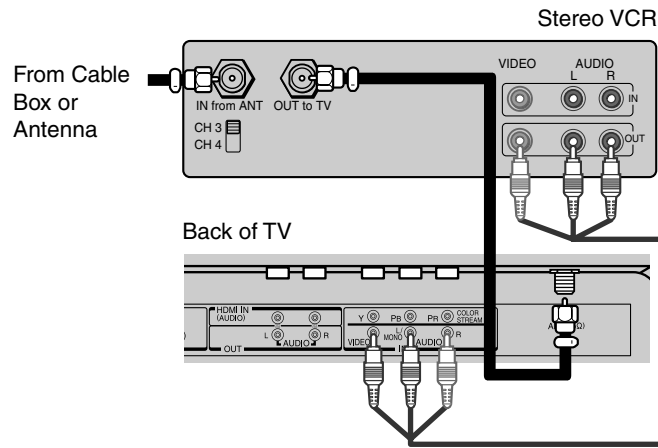
## Connecting an antenna or cable TV

This connection allows you to watch TV programs or basic cable channels.



## Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.



### Note:

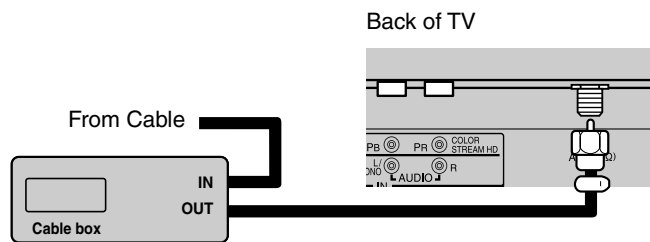
If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have a VCR with S-video, use an S-video cable (in the S-video jacks) instead of a standard video cable.

The TV side panel can be used to connect a VCR with S-video.

## Connecting a cable converter box

This connection allows you to watch basic and premium cable channels. Tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

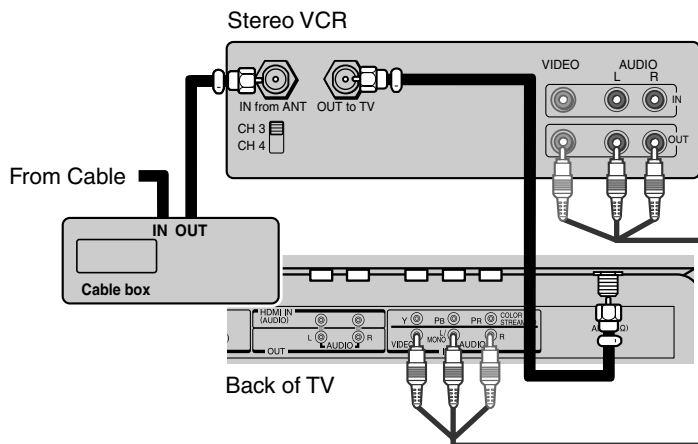


### Note:

When you use a converter box with your TV, the remote control will not operate some features, such as favorite channel programming or channel return.

## Connecting a cable converter box and a VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. Set the TV signal source to Video1 (page 26). Tune the VCR to channel 3 or 4 (the same channel as the converter box output switch), and use the cable converter box to change channels.



### Note:

When you use a converter box with your TV, the remote control will not operate some features, such as favorite channel programming or channel return.

If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

If you have a VCR with S-video, use an S-video cable (in the S-video jacks) instead of a standard video cable.

The TV side panel can be used to connect a VCR with S-video.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.



## Connecting a DVD player with ColorStream® (component video) and a VCR

This connection allows you to watch DVD, VCR, and TV programs, and record TV programs.

Your TV has ColorStream® (component video) inputs. Connecting your TV to a DVD player with component video can greatly enhance picture quality and realism.

- To record one TV program while watching another TV program, tune the VCR to the channel to record, and tune the TV to the channel to watch.
- To record a TV program while watching a DVD, tune the VCR to the channel to record, and select Video1 on the TV (see "Selecting the video input source" on page 26).

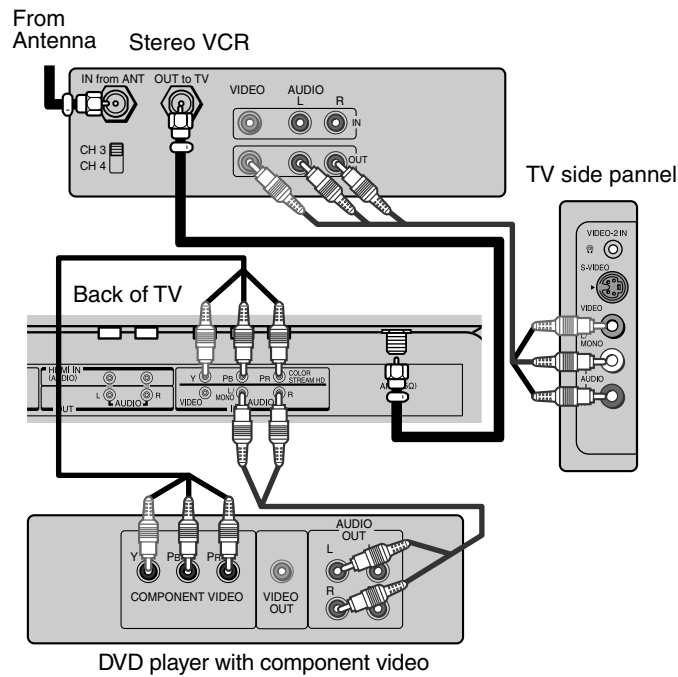
### Note:

For the highest possible picture quality, use component video cables between the TV and DVD player.

The ColorStream jacks can be used with 480i and 480p scan system.

The TV side panel can be used to connect a VCR with S-video.

Connecting  
your TV



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## Connecting a DTV receiver/set-top box with ColorStream® (component video) and a VCR

This connection allows you to watch DTV (digital TV), VCR, and TV programs, and record DTV (composite video only) and TV programs.

Your TV has ColorStream® (component video) inputs. Connecting your TV to a DTV receiver with component video can greatly enhance picture quality and realism.

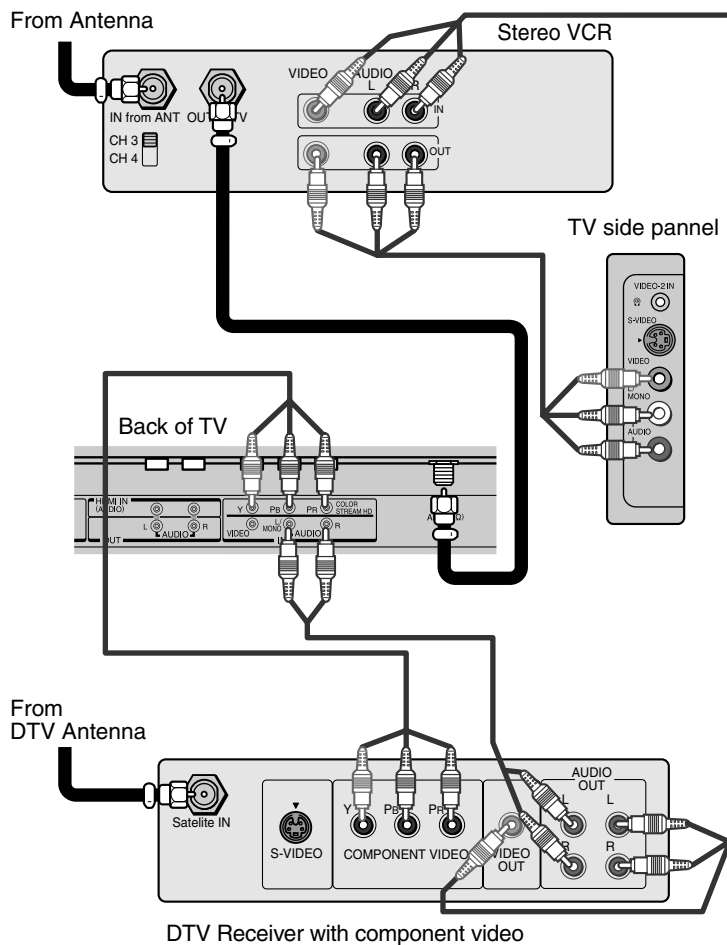
- To record and watch a DTV program, select LINE IN on the VCR, and select Video1 on the TV (see “Selecting the video input source” on page 26).
- To record a TV program while watching a DTV program, tune the VCR to the channel to record, and select Video1 on the TV.
- To record and watch the same TV program, tune the VCR to the channel to record, and select Video2 on the TV.
- To record one TV program while watching another TV program, tune the VCR to the channel to record, and tune the TV to the channel to watch.

### Note:

For the highest possible picture quality, use component video cables between the TV and DTV receiver/set-top box.

The TV side panel can be used to connect a VCR with S-video.

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## Connecting an HDMI™ or a DVI device to the HDMI input

The HDMI<sup>[1]</sup> input on your TV receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI<sup>[2]</sup> device.

This input is designed to accept HDCP<sup>[3]</sup> program material in digital form from EIA/CEA-861/861B-compliant<sup>[4]</sup> consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

The HDMI input is designed for best performance with 1080i high-definition video signals, but will also accept and display 480i, 480p, and 720p signals.

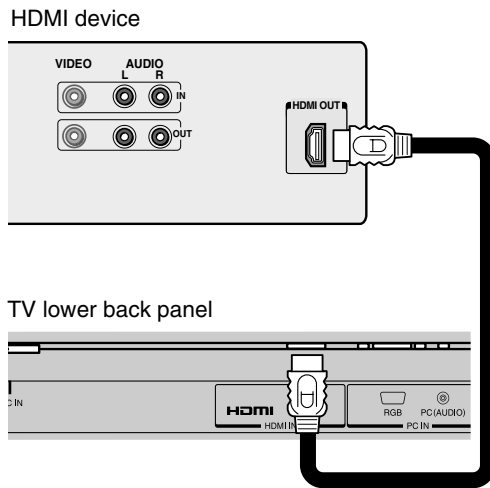
**Note:** The HDMI jack is not intended for connection to and should not be used with a personal computer. For PC connection, see page 16.

### To connect an HDMI device, you will need:

- one HDMI cable (type A connector)

*For proper operation, it is recommended that you use a short HDMI cable.*

*HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration below). Some CDVs (Video CDs) may not output digital audio signals, in which case you may be able to hear sound by connecting analog audio cables. However, if you connect analog audio cables with this connection, the HDMI terminal on the TV will not receive the HDMI digital audio signal and you will hear analog audio only.*



[1] HDMI = High-Definition Multimedia Interface.

[2] DVI = Digital Video Interface.

[3] HDCP = High-bandwidth Digital Content Protection.

[4] EIA/CEA-861/861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, the technology of which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

*To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:*

- When turning on your electronic components, **turn on the TV first**, and then the HDMI or DVI device.
- When turning off your electronic components, **turn off the HDMI or DVI device first**, and then the TV.

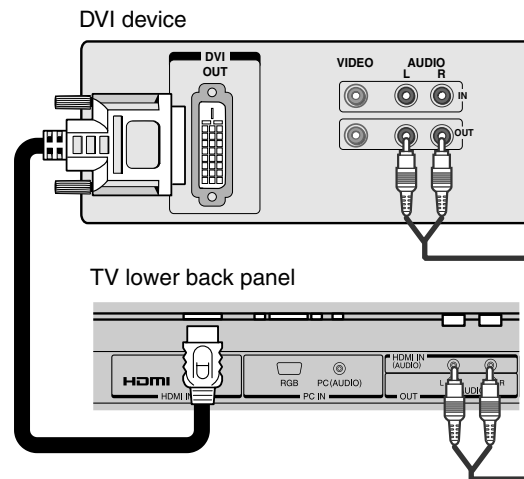
### To connect a DVI device, you will need:

- one HDMI-to-DVI adapter cable (HDMI type A connector)

*For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).*

- one pair of standard analog audio cables

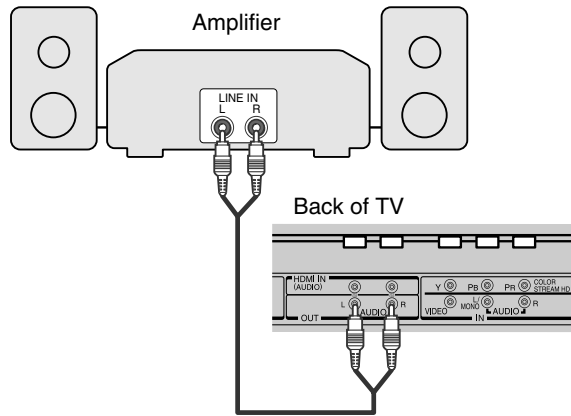
*An HDMI-to-DVI adapter cable transfers only video. Separate analog audio cables are required (see illustration below).*



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

## Connecting an audio system

This connection allows you to hear the TV sound through external speakers connected to an audio amplifier. The audio signal level (fixed) is not affected by pressing the volume buttons on the TV or the TV's remote control. To control the audio through the amplifier, use the audio system's remote control.

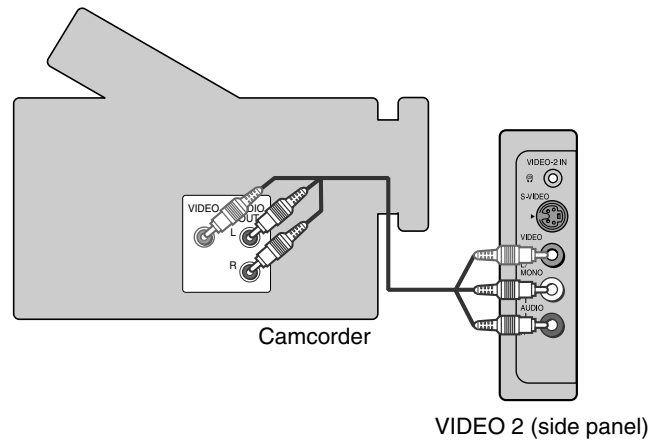


**Note:**

Set the TV's volume to the minimum level if necessary.

## Connecting a camcorder

This connection allows you to watch video materials recorded on a camcorder.



**Note:**

If you have a camcorder with S-video, use an S-video cable instead of a standard video cable for better picture performance.

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## Connecting a personal computer (PC)

This connection allows you to view the image of a personal computer (PC) on the TV screen. When connecting a PC to the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.

- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The following signals can be displayed.

- WXGA: VESA 1360 × 768 @ 60Hz

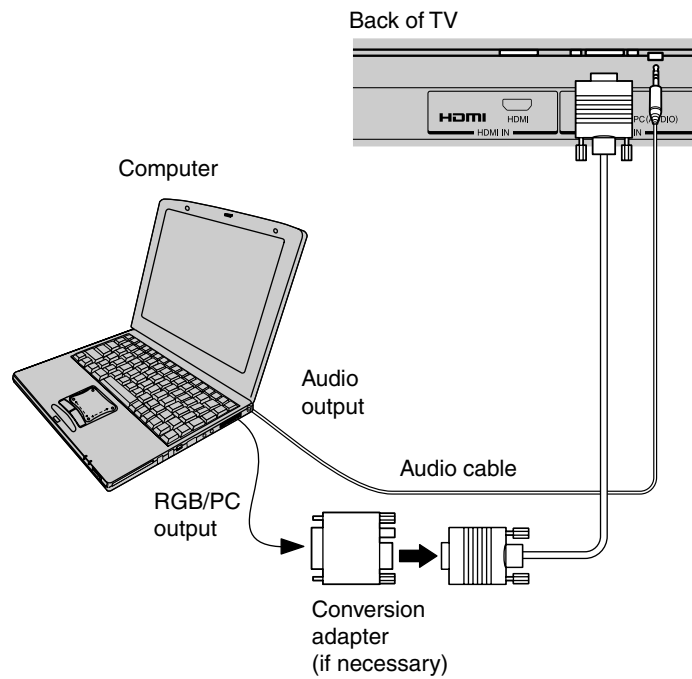
Other formats or non-standard signals may not be displayed correctly.

- To display the optimum picture, use the PC setting feature. (see “Using the PC setting feature” on page 37).

### Note:

- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a DOS/V compatible mini D-sub 15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.

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your TV



## Setting up your TV

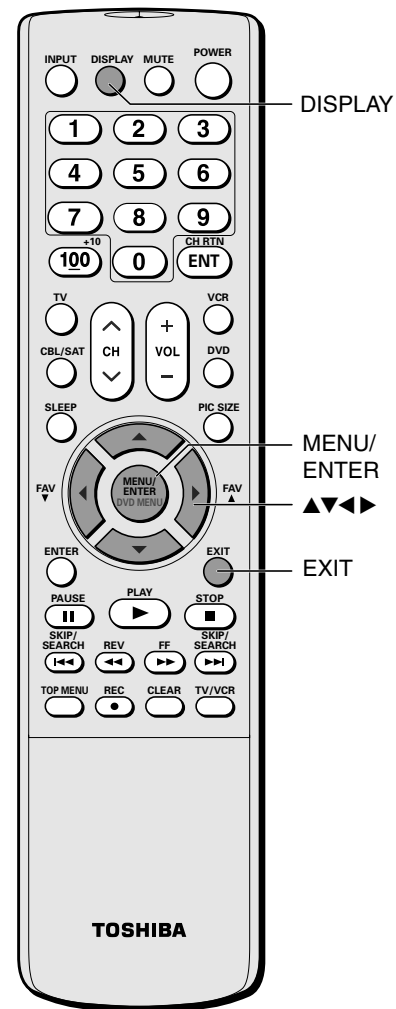
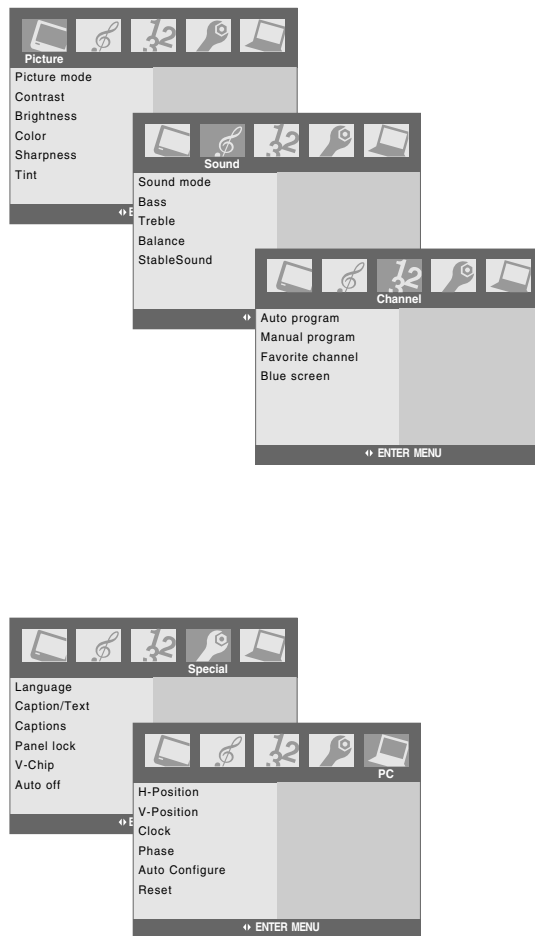
### Learning about the menu system

After you have installed the batteries, you will need to set some preferences on the TV by using the menu system. You can access the menu system using the buttons on the TV or remote control.

1. Press MENU to display the menu system.
2. Press ◀ or ▶ to select a menu.
3. Press ENTER, and then press ▲ or ▼ to select an item.
4. Press ENTER, and then press ▲ or ▼ to select or adjust a setting.
5. Press ENTER to save your menu settings.

To close the menu system, press DISPLAY.

To return to the previous menu, press EXIT.



**Note:**

The PC mode is selectable only when the TV is in PC input mode and active picture is on-screen (see "Selecting the video input source" on page 26).



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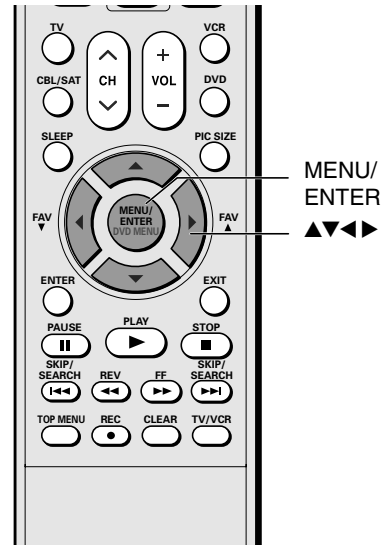
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## Changing the on-screen display language

You can choose from three different languages (English, Spanish and French) for the on-screen display of adjustment menus and messages.

To select a language:

1. Press MENU, and then press ◀ or ▶ until the Special menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight Language.
3. Press ENTER, and then press ▲ or ▼ to select your desired language.



## Adding channels to the TV's memory

When you press CH ▲ or CH ▼, your TV will stop only on the channels you program into the TV's channel memory.

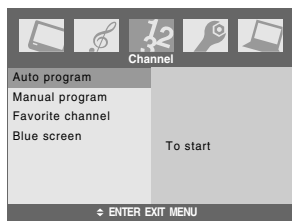
Follow the steps below and on the next page to program all active channels into the TV's memory.

### Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in the channel memory. After the channels are programmed automatically, you can manually add or erase individual channels (see page 25).

To program channels automatically:

1. Press MENU, and then press ◀ or ▶ until the Channel menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight Auto program.



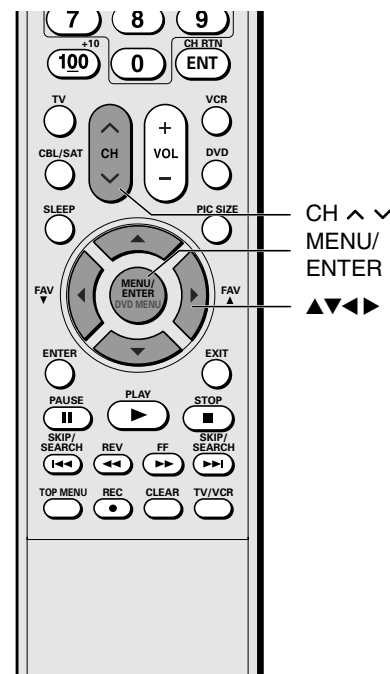
3. Press ENTER to start auto-programming. The TV will automatically cycle through all the TV and Cable channels, and store all active channels in the channel memory.



4. Press CH ▲ or CH ▼ to view the programmed channels.

### Note:

- To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
- If you press the ENTER button during auto-programming, the function will stop and only the channels programmed up to that time will be stored in the channel memory.



Setting up your TV

## Adding and erasing channels manually

After you have automatically programmed the active channels into the TV's channel memory, you can manually add or erase specific channels.

To add or erase channels:

1. Press MENU, and then press ◀ or ▶ until the Channel menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight Manual program.
3. Press ENTER, and then press ◀ or ▶ to select a channel you want to add or erase.



4. Press ▼, and then press ◀ or ▶ to select Memory (add) or Erase. The current channel is added to Memory or erased from the channel list.

## Changing channels

To change to a specific channel (programmed or unprogrammed):

Press the Channel Number buttons (0–9 and 100).  
For channels 100 and higher, press the 100 button, and then the next two numbers. For example, to select channel 125, press 100, 2, 5.

To change to the next programmed channel:

Press CH ▲ or CH ▼ on the TV or remote control.

## Programming your favorite channels

You can preset up to 8 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

To program your favorite channels:

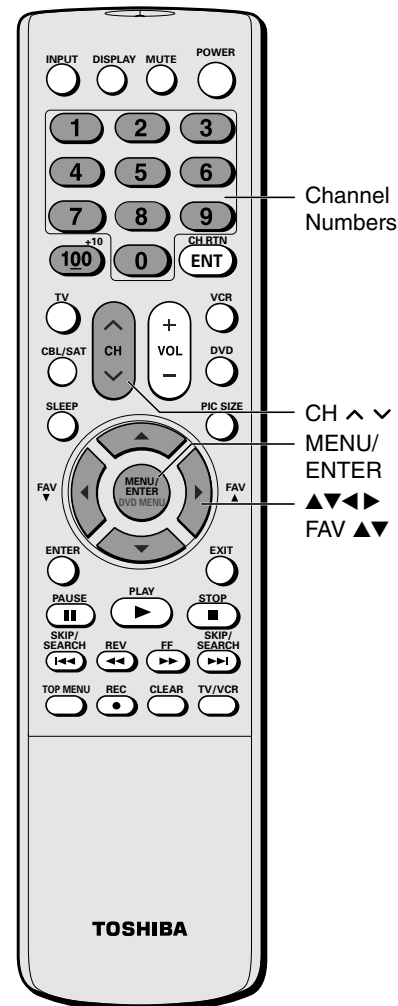
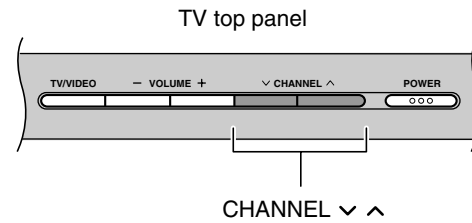
1. Press MENU, and then press ◀ or ▶ until the Channel menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight Favorite channel.
3. Press ENTER to display the Favorite Ch. menu.



4. Press ▲ or ▼ to select the first favorite channel position.
5. Press ◀ or ▶ to set the desired channel number for the first favorite channel position.
6. Repeat steps 4 and 5 to program other channels.

To select your favorite channels:

Repeatedly press FAV ▲ or ▼ on the remote control.



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## Using the TV's features

### Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (0–9, 100).
3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the last two channels that were selected.

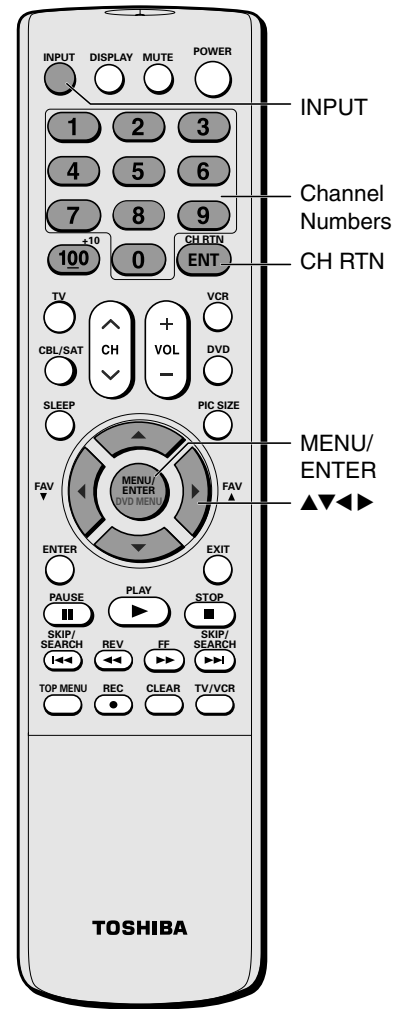
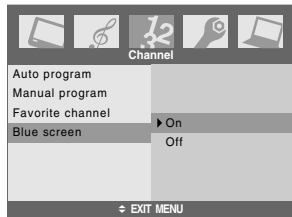
### Using the Blue screen feature

With the Blue screen function On, the screen will automatically turn blue and the sound will be muted when no signal is received.

To turn on the Blue screen feature:

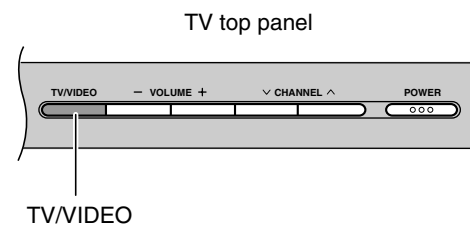
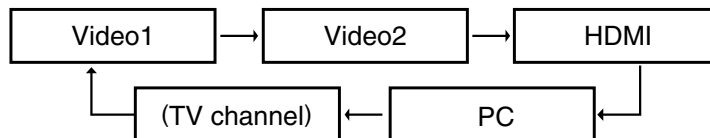
1. Press MENU, and then press ◀ or ▶ until the Channel menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight Blue screen.
3. Press ENTER, and then press ▲ or ▼ to select On.

**Note:** If the Blue screen appears repeatedly because of poor signal strength, select Off in step 3.



### Selecting the video input source

Press INPUT on the remote control or press TV/VIDEO on the TV top panel to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select Video1 (including ColorStream), Video2, HDMI or PC depending on which input jacks are used for connecting the devices (see "Connecting your TV" on page 10).



## Viewing the wide-screen picture formats

You can view 480i, 480p, 720p, and 1080i format programs in a variety of picture sizes—Natural, TheaterWide 1, TheaterWide 2, TheaterWide 3, and Full.

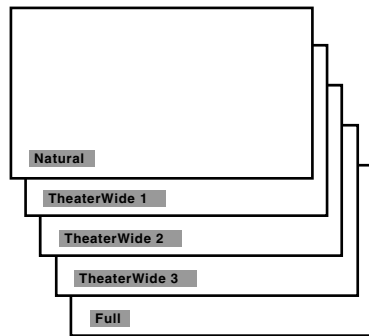
The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that looks best to you.

Signal \ Picture size	Natural	TheaterWide 1	TheaterWide 2	TheaterWide 3	Full
480i	yes	yes	yes	yes	yes
480p	yes	yes	yes	yes	yes
720p	yes*	no	no	no	no
1080i	yes*	no	no	no	no

\* Full picture size

## Selecting the picture size

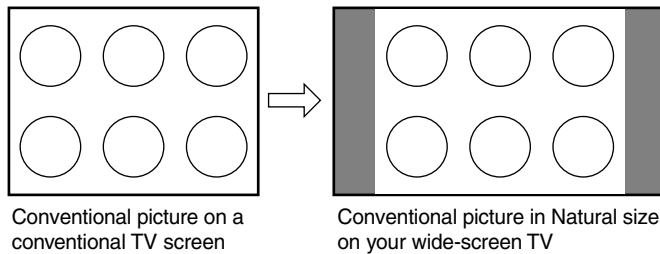
Repeatedly press PIC SIZE on the remote control to select the desired picture size, as described below and on the next page.



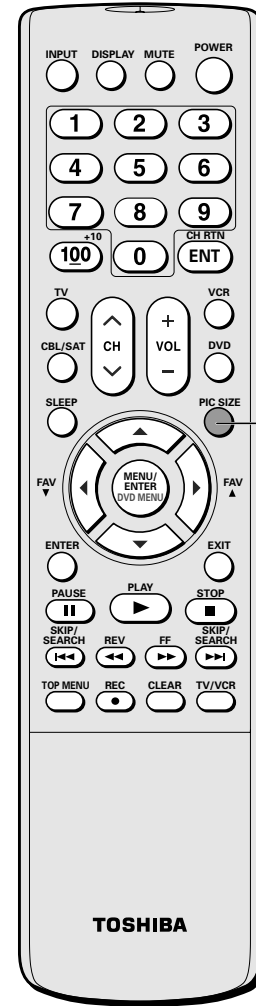
## Natural picture size

- The image is displayed close to its originally formatted proportion. Some program formats will display with side bars and/or bars at the top and bottom.

Natural picture size example: The way the image displays will vary depending on the format of the program you are currently watching.



(continued on next page)



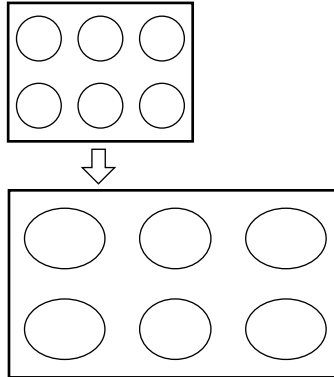
PIC SIZE





### TheaterWide 1 picture size (For 4:3 format programs)

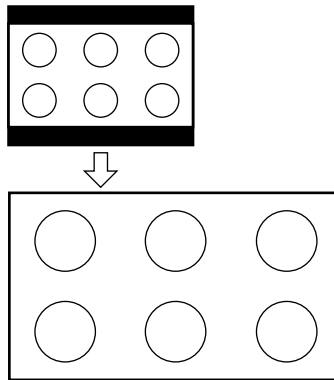
- The picture is non-uniformly enlarged—the center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- A small part of the picture at the top and bottom is hidden.



TheaterWide 1 picture size example

### TheaterWide 2 picture size (For Letter box programs)

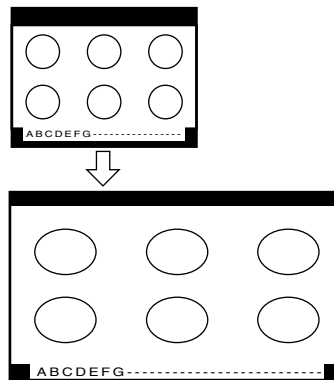
- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).
- Part of the picture at the top and bottom is hidden.



TheaterWide 2 picture size example

### TheaterWide 3 picture size (For Letter box programs with subtitles)

- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- A small part of the picture at the top and bottom is hidden.



TheaterWide 3 picture size example

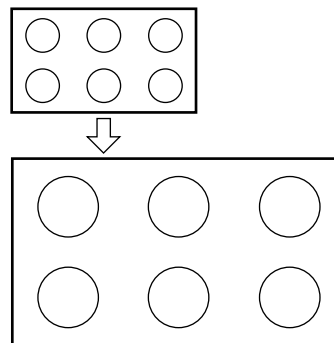
#### Note:

Using these functions to change the picture size (i.e., changing the height/width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Using the TV's Features

### Full picture size (For 16:9 format programs)

- If you are receiving a 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example



## Using the V-Chip menu

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip control feature in this TV detects the signals and blocks the programs according to your selections. To use this feature, perform the following setup.

1. Enable the Lock.
2. Set a four-digit password.
3. Select the ratings and categories you want to block.

## V-Chip rating and categories

Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV rating and/or category. Movies that have been shown at the theaters and direct-to-video movies use the MPAA movie rating system instead.

### For Movies previously shown in theaters :

#### Movie Ratings :

- Unblocked
- G & above (general audience)
- PG & above (parental guidance suggested)
- PG-13 & above (13 years and older)
- R & above (restricted)
- NC-17 & above (18 years and older)
- X (adult)

If you select "PG-13 & above," all G and PG rated movies will be available, and all PG-13, R, NC-17 and X rated movies will be blocked.

### For Television programs including made-for-TV movies:

#### General TV Ratings:

- Unblocked
- TV-G & above (general audience)  
(individual categories do not apply)
- TV-PG & above (parental guidance suggested)
- TV-14 & above (14 years and older)
- TV-MA (mature audience)

#### Children TV Ratings:

- Unblocked
- TV-Y & above (youth)  
(individual content categories do not apply)
- TV-Y7 (youth, 7 years and up)

#### Content Categories:

- Dialog - sexual dialogue (applies to TV-PG & above, TV-14)
- Language - adult language (applies to TV-PG & above, TV-14 & above, TV-MA)
- Sex - sexual situations (applies to TV-PG & above, TV-14 & above, TV-MA)
- Violence (applies to TV-PG & above, TV-14 & above, TV-MA)
- F. Violence - fantasy violence (applies only to TV-Y7)
- No Rating (blocks all viewing)

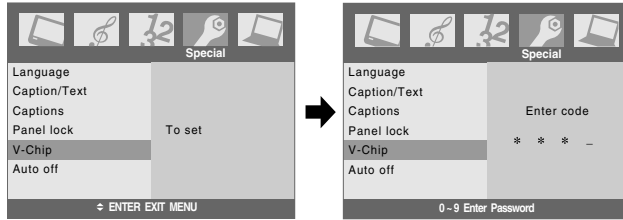
#### **Note:**

The V-Chip function is available for the U.S. V-Chip system only. The Canadian V-Chip system is not supported.



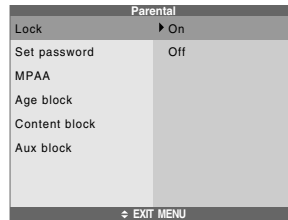
## V-Chip blocking (Parental control) setup

1. Press MENU, and then press ◀ or ▶ until the Special menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight V-Chip. Press ENTER.



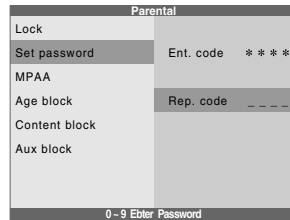
- If you already set a password, enter your four-digit password.
  - If you have not created a password, the TV is initially set up with the password "0-0-0-0".
  - If you cannot remember your password, press "7-7-7-7."
3. Enabling the Lock:

Press ▲ or ▼ to highlight Lock.  
Press ENTER, and then press ▲ or ▼ to select On (Lock) or Off (Unlock).



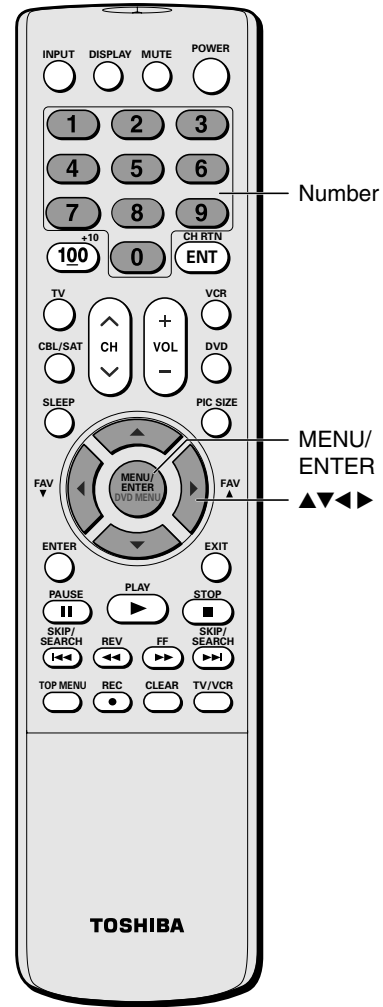
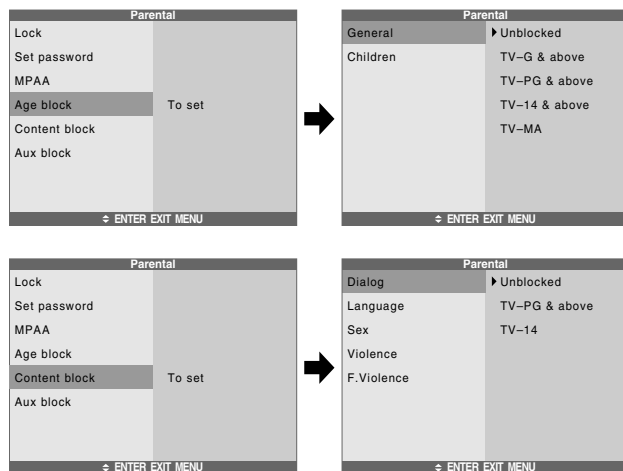
4. Set a password:

Press ▲ or ▼ to highlight Set password.  
Press ENTER, and then enter a four-digit password.  
Enter it again when requested.

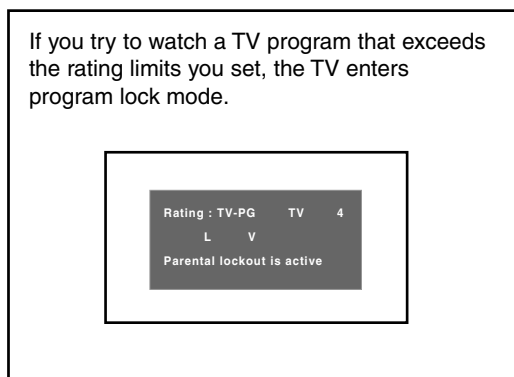


5. Press ▲ or ▼ to highlight the type of blocking to be set.
6. Press ENTER, and then press ▲ or ▼ to select the type of ratings to block.

- The age block and Content block menus also have sub-menus; therefore, you will need to repeat steps 5 and 6 to set the types of blocking and ratings in the sub-menus.



Using the TV's Features



## Adjusting the picture

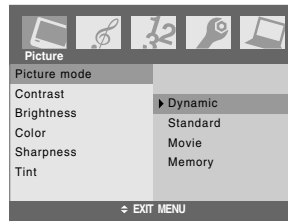
### Selecting the picture mode

You can select your desired picture type from four picture modes: Dynamic, Standard, Movie, or Memory.

Mode	Picture Quality
Dynamic	Bright and dynamic picture (factory setting)
Standard	Standard picture setting (factory setting)
Movie	Movie-like picture setting (factory setting)
Memory	Your personal preference

To select the picture mode:

1. Press MENU, and then press ◀ or ▶ until the Picture menu appears.
2. Press ENTER, and then press ▼ or ▲ to highlight Picture mode.
3. Press ENTER, and then press ▼ or ▲ to select the mode you prefer.



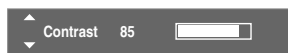
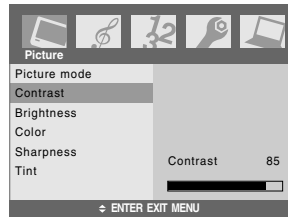
### Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, sharpness, and tint.

Selection	Pressing	
Contrast	lower	higher
Brightness	darker	lighter
Color	paler	deeper
Sharpness	softer	sharper
Tint	reddish	greenish

To adjust the picture quality:

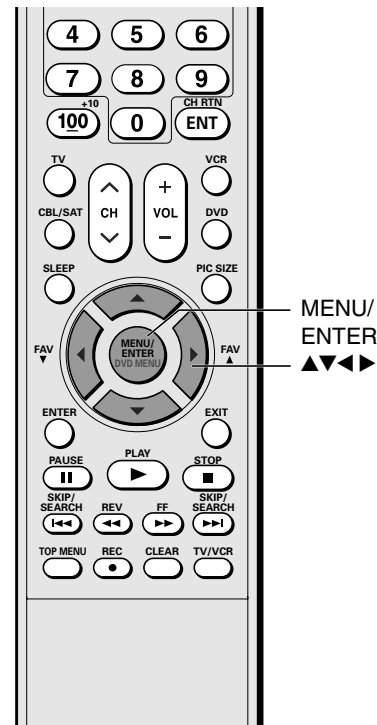
1. Press MENU, and then press ◀ or ▶ until the Picture menu appears.
2. Press ENTER, and then press ▲ or ▼ until the item you want to adjust is highlighted.
3. Press ENTER.
4. Press ◀ or ▶ to adjust the level.



The Picture qualities you adjusted can be saved in the TV's Memory.

#### Note:

If you select one of the factory-set picture modes (Dynamic, Standard, or Movie) and then adjust a picture quality setting (for example, increase the contrast), the picture mode automatically changes to Memory in the Picture menu.



#### Note:

To continue adjusting the other items, press ▲ or ▼ in step 4.



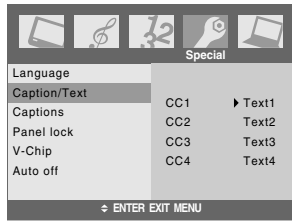
## Using the Closed Caption feature

The Closed Caption feature has two options:

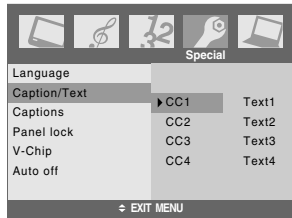
- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked as “CC” in TV listings).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To select captions or text:

1. Tune the TV to the desired program.
2. Press MENU, and then press ◀ or ▶ to display the Special menu.
3. Press ENTER, and then press ▲ or ▼ to highlight Caption/Text.



4. Press ENTER, and then press ▲ or ▼ to select the Caption or Text mode you prefer.



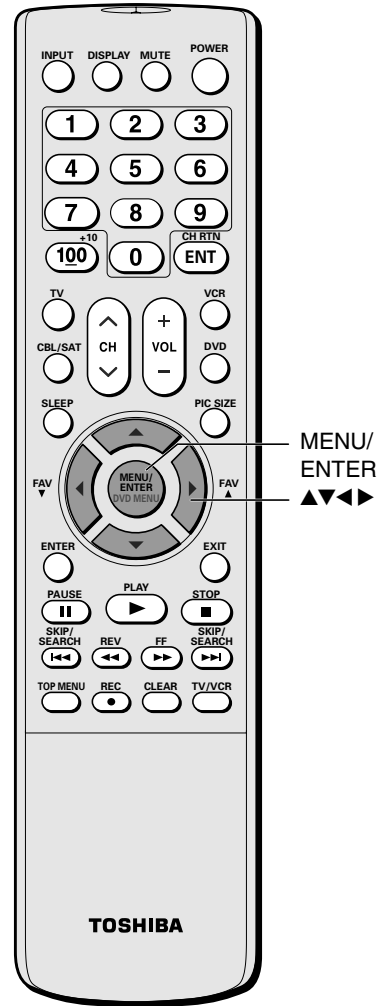
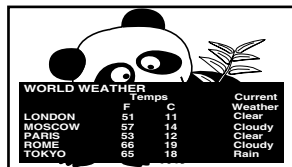
- To view captions, select CC1, CC2, CC3, or CC4 (CC1 displays captions in the primary language in your area).

**Note:** If the program or video you selected is not closed captioned, the captions will not display on the screen.



- To view text, select Text1, Text2, Text3, or Text4.

**Note:** If text is not available in your area, a black rectangle may appear on your screen. If this happens, turn the Closed Caption feature Off.



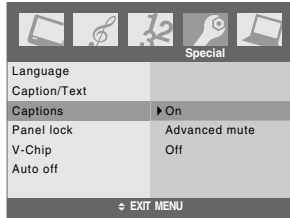
### Note:

A closed caption signal may not display in the following situations:

- When a videotape has been dubbed
- When the signal reception is weak
- When the signal reception is nonstandard

## To turn on or off the Closed Caption feature

1. Press MENU, and then press ◀ or ▶ to display the Special menu.
2. Press ENTER, and then press ▲ or ▼ to highlight Captions.
3. Press ENTER, and then press ▲ or ▼ to select On, Advanced mute or Off.
  - Advanced mute activates the selected Caption or Text mode when the TV sound is muted.



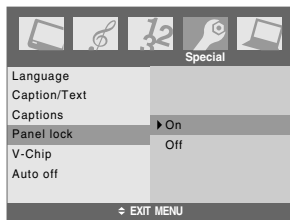
## Using the Panel lock feature

You can lock the control buttons on the TV to prevent your settings from being changed accidentally (by children, for example).

When the Panel lock is On, no control buttons on the TV top panel will operate except POWER.

To lock the top panel:

1. Press MENU, and then press ◀ or ▶ to display the Special menu.
2. Press ENTER, and then press ▲ or ▼ to highlight Panel lock.
3. Press ENTER, and then press ▲ or ▼ to select On.

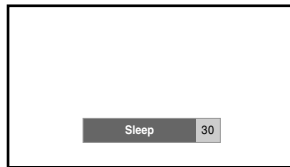


To unlock the top panel:  
Select Off in step 3 above.

## Setting the sleep timer

To set the sleep timer to turn off the TV automatically:

Repeatedly press SLEEP to set the length of time until the TV turns off.

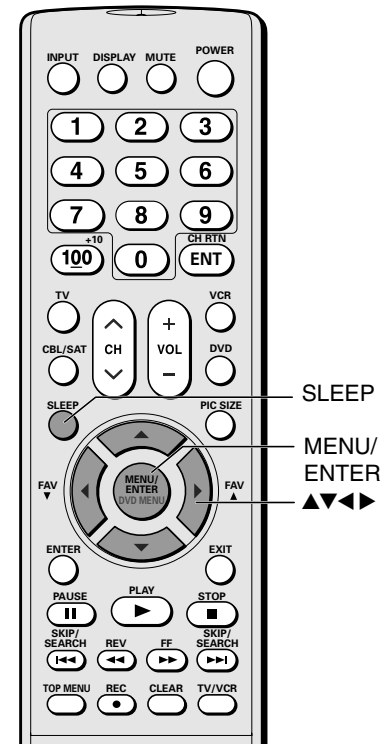
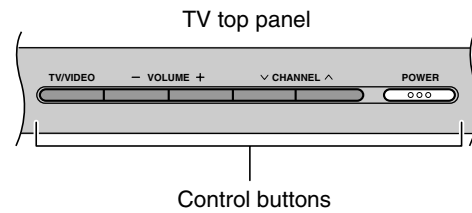
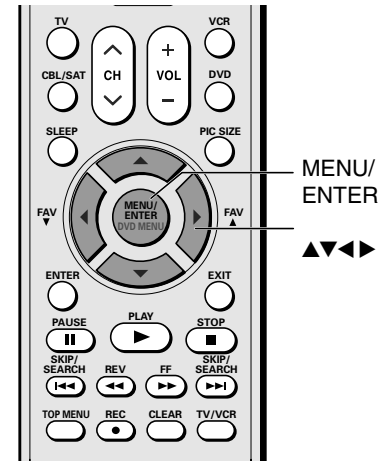


Every time you press SLEEP, the time display will increase by 30 minutes, up to 120 minutes.

30 → 60 → 90 → 120 → ---

To cancel the sleep timer:

Press SLEEP until "Sleep ---" appears.



### Note :

- When an instant power failure occurs, the sleep timer settings may be cleared.
- To display the amount of time left until the TV turns off automatically, press SLEEP once.





## Adjusting the sound

### Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display “Mute” in the lower left corner.

When you select “MUTE” mode, the Closed Caption feature is automatically activated. To deactivate this feature, deactivate MUTE. This feature works only when the Closed Caption mode is set to Advanced mute. See “Using the Closed Caption feature” on page 32 for more information.

### Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to listen to high-fidelity stereo sound while watching TV. MTS can also transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word “ST.SAP”, “Stereo” or “SAP” appears on-screen every time the TV is turned on, the channel is changed, or DISPLAY is pressed.

The MTS feature is not available when the TV is in Video mode.

To listen to stereo sound:

Repeatedly press ▲ to select Stereo.



You can leave your TV in Stereo mode because it will automatically output the type of sound being broadcast (stereo or monaural).

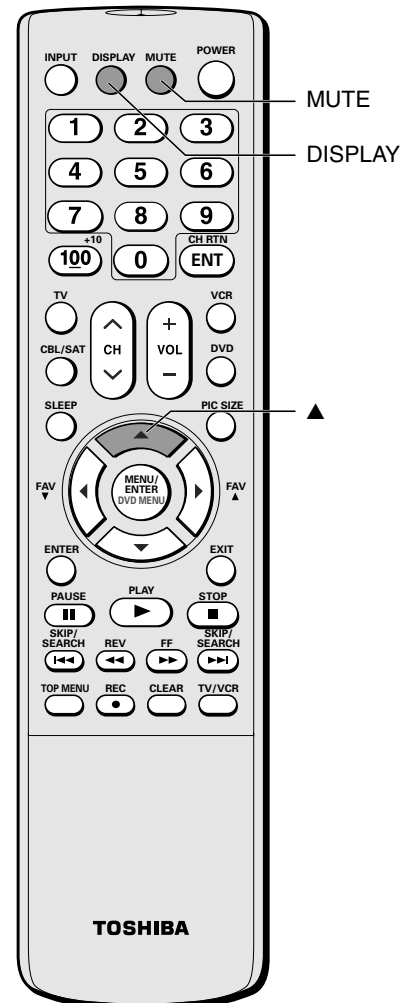
If the stereo sound is noisy, select Mono to reduce the noise.

To listen to SAP (if available):

Press ▲ repeatedly to select SAP.



You will hear the station's second audio program (if available) from the speakers, while viewing the original program's picture.

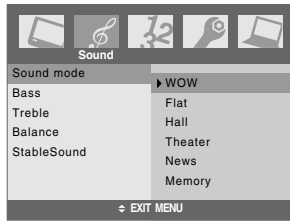


## Using the WOW surround sound feature

WOW surround widens and deepens audio listening field to deliver exceptional sound from the TV's speakers. The feature uses stereo signals from a TV broadcast or video input.

To activate the WOW feature:

1. Select Stereo mode (see "Selecting stereo/SAP broadcasts" on page 34).
2. Press MENU, and then press ◀ or ▶ until the Sound menu appears.
3. Press ENTER, and then press ▲ or ▼ to highlight Sound mode.
4. Press ENTER, and then press ▲ or ▼ to select WOW.



## Selecting the sound mode

You can select your desired sound type from six sound modes: WOW, Flat, Hall, Theater, News, or Memory.

To select the sound mode:

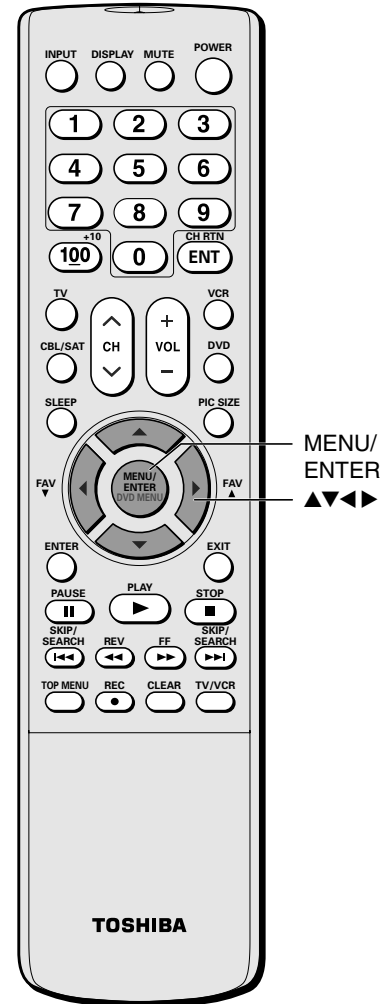
1. Press MENU, and then press ◀ or ▶ until the Sound menu appears.
2. Press ENTER, and then press ▼ or ▲ to highlight Sound mode.
3. Press ENTER, and then press ▼ or ▲ to select the mode you prefer.



Mode	Sound Quality
WOW	see above
Flat	flat sound ( factory setting )
Hall	a concert hall filled with a rich warm sound ( factory setting )
Theater	a movie theater filled with a dynamic sound ( factory setting )
News	news/dialogue ( factory setting )
Memory	your personal preference

### Note:

If the broadcast is monaural, the WOW sound effect will not work.



### Note:

If you select one of the factory-set audio modes ( WOW, Flat, Hall, Theater, or News ) and then change a sound quality setting ( for example, increase the bass ), the sound mode automatically change to Memory mode.



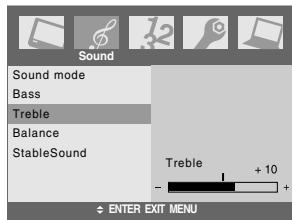
WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.  
WOW technology is incorporated under license from SRS Labs, Inc.

## Adjusting the sound quality

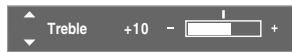
You can change the quality of your TV's sound by adjusting the bass, treble, and balance.

To adjust the sound quality:

1. Press MENU, and then press ◀ or ▶ until the Sound menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight the item you want to adjust.



3. Press ENTER.
4. Press ◀ or ▶ to adjust the level.



- ◀ makes the sound quality weaker or increases the balance in the left channel, depending on the item selected.
- ▶ makes the sound quality stronger or increases the balance in the right channel, depending on the item selected.

### Note:

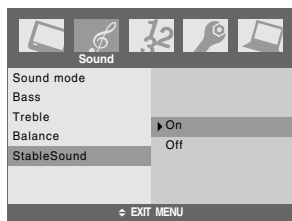
To continue adjusting the other items, press ▲ or ▼ in step 4.

## Using the StableSound® feature

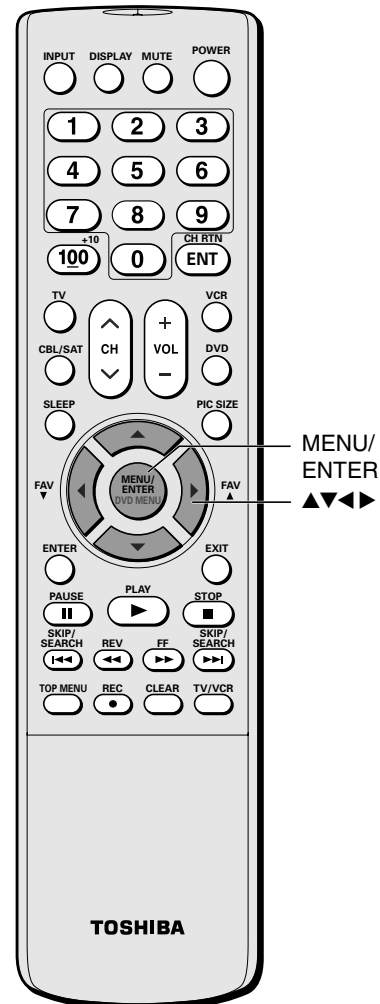
When the signal source is changed, the StableSound feature limits the highest volume level to prevent extreme changes in volume (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

To turn on the StableSound feature:

1. Press MENU, and then press ◀ or ▶ until the Sound menu appears.
2. Press ENTER, and then press ▲ or ▼ to highlight StableSound.
3. Press ENTER, and then press ▲ or ▼ to select On.



To turn off the StableSound feature:  
Select Off in step 3 above.

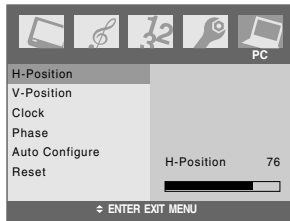


## Using the PC setting feature

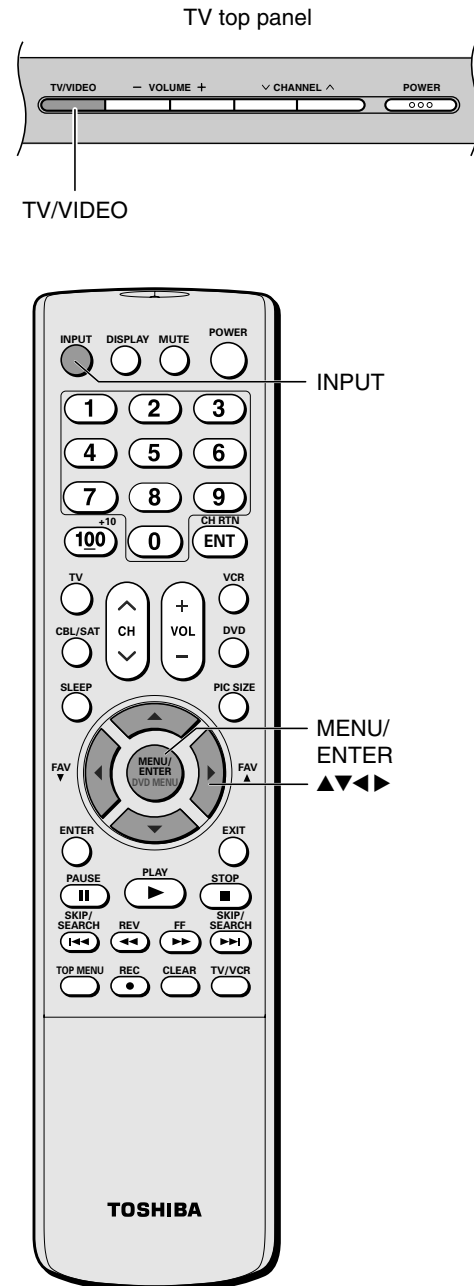
You can adjust the horizontal/vertical picture position, clock (to minimize vertical stripes on the screen), and phase (to remove horizontal noise and sharpen the picture).

You can auto-configure and reset these settings.

1. Confirm a PC is connected (see “Connecting a personal computer (PC)” on page 16).
2. Repeatedly press INPUT on the remote control (or press TV/VIDEO on the TV top panel) to select PC input mode. (See “Selecting the video input source” on page 26.)
3. Press MENU, and then press ◀ or ▶ until the PC menu appears.
4. Press ENTER, and then press ▲ or ▼ to select an item.



5. Press Enter.
6. Press ◀ or ▶ to make the appropriate adjustments.
  - H-position/V-position  
Adjusts picture left/right and up/down. The adjustment range is 0–100. (The adjustable range may vary depending on the input mode.)
  - Clock  
Minimizes any vertical bars or stripes appearing on the screen background. The adjustment range is 0–100. (The adjustable range may vary depending on the input mode.)
  - Phase  
Reduces (or minimizes) any horizontal noise and clears up or sharpens the character images. The range adjustment is 0–100. (The adjustable range may vary depending on the input mode.)
  - Auto Configure  
Automatically adjusts the screen position, clock, and phase. (The displayed image will disappear for a few seconds while auto-configuration is in progress.)
  - Reset  
Returns to the default settings programmed at the factory. The values in the Reset function cannot be modified.



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S

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Appendix

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## Appendix

### Specifications

- This model complies with the specifications listed below.
- Designs and specifications are subject to change without notice.



**WARNING: RISK OF ELECTRIC SHOCK !**

**Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to a Toshiba Authorized Service Center.**

Television System  
NTSC standard

Channel Coverage  
VHF: 2 through 13  
UHF: 14 through 69  
Cable TV: Mid band (A-8 through A-1, A through I)  
Super band (J through W)  
Hyper band (AA through ZZ, AAA, BBB)  
Ultra band (65 through 94, 100 through 125)

Power Source  
100-240 V AC, 60 Hz

Power Consumption  
90 W  
0.8 W in standby mode

Audio Power  
5 W + 5 W

Video/Audio Terminals  
S-VIDEO INPUT  
Y : 1 V(p-p), 75 ohms, negative sync.  
C : 0.286 V(p-p) (burst signal), 75 ohms  
VIDEO/AUDIO INPUT  
VIDEO: 1 V(p-p), 75 ohms, negative sync.  
AUDIO: 400 mV(rms) (30% modulation equivalent,  
22k ohms or greater)  
ColorStream® (Component video) INPUT  
Y : 1V(p-p), 75 ohms  
PR: 0.7 V(p-p), 75 ohms  
PB: 0.7 V(p-p), 75 ohms  
AUDIO: 400 mV(rms), 22k ohms or greater  
Suggested resolutions: 1080i, 480p, 480i, 720p  
AUDIO OUTPUT  
400 mV(rms) (30% modulation equivalent,  
2.2k ohms or less)

HEADPHONE jack  
3.5 mm stereo mini jack  
PC INPUT  
15-pin D-sub Analog RGB  
PC AUDIO INPUT  
3.5 mm stereo mini jack  
HDMI™ INPUT:  
HDMI compliant (type A connector)  
HDCP compliant  
E-EDID\* compliant  
Suggested scan rates: 1080i, 480p, 480i, 720p  
HDMI Audio:  
2-channel PCM;  
32/44.1/48 kHz sampling frequency;  
16/20/24 bits per sample  
**Note:** This TV does not provide HDMI OUTPUT.

Dimensions (Including TV stand)  
Width : 24-3/8 inches (619 mm)  
Height : 18-5/8 inches (473 mm)  
Depth : 11-1/8 inches (280 mm)

Mass (weight)  
27.6 lbs (12.5 kg)

Operating conditions  
Temperature: 32°F – 95°F (0°C – 35°C)  
Humidity: 20 – 80% (no moisture condensation)

\*E-EDID = Enhanced-Extended Display Identification

## Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom	Solution
TV will not turn on	<ul style="list-style-type: none"><li>• Make sure the power cord is plugged in, then press POWER.</li><li>• The remote control batteries may be dead. Replace the batteries.</li></ul>
No picture, no sound	<ul style="list-style-type: none"><li>• Check the antenna/cable connections.</li></ul>
No sound, picture OK	<ul style="list-style-type: none"><li>• The sound may be muted. Press VOL + -.</li><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Make sure the MTS feature is set properly.</li></ul>
Poor picture, sound OK	<ul style="list-style-type: none"><li>• Check the antenna connections.</li><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Adjust the Picture menu.</li></ul>
Poor reception of broadcast channels	<ul style="list-style-type: none"><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Check the antenna connections.</li></ul>
Black box appears on the screen	<ul style="list-style-type: none"><li>• The Closed Caption feature may be set to one of the Text modes (Text1, Text2, Text3, or Text4). Turn closed captioning Off.</li></ul>
Unable to select a certain channel	<ul style="list-style-type: none"><li>• The channel may be erased with the Manual programming feature.</li></ul>
Multiple images	<ul style="list-style-type: none"><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Antenna reception may be poor. Use a highly directional outdoor antenna.</li></ul>
Poor color or no color	<ul style="list-style-type: none"><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Adjust the Tint and/or Color in the Picture menu.</li></ul>
No stereo or SAP sound from a known MTS broadcast	<ul style="list-style-type: none"><li>• Make sure the MTS feature is set properly.</li></ul>
The top panel buttons do not operate	<ul style="list-style-type: none"><li>• Check the Panel lock feature.</li></ul>
The remote control does not operate	<ul style="list-style-type: none"><li>• First press the appropriate device button (TV, VCR, DVD, CBL/SAT) on the remote control.</li><li>• Remove all obstructions between the remote control and the remote control sensor in the TV.</li><li>• The remote control batteries may be dead. Replace the batteries.</li></ul>

# **TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.**

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YC/L 72742112