

# TOSHIBA

# OWNER'S MANUAL

## Projection Television

**16:9**  
WIDE

COLORSTREAM®

**SRS**  
WOW

TouchFocus™

46H83

51H83

57H83

65H83

### 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:

Serial No.:



## Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new 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**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**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.

## NOTE TO CATV INSTALLERS IN THE USA

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.

## NOTICE OF POSSIBLE TV STAND INSTABILITY



**DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!** Use this TV with

the TOSHIBA TV stand recommended in the "Specifications" section only. Use with other stands may result in instability, causing possible injury or death.

## NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY.** See item 33 on page 4.

# Child Safety

## It Makes A Difference Where Your TV Stands



**Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:**

## The Issue

- ☐ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- ☐ The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- ☐ Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

## Toshiba Cares!



- ☐ The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- ☐ The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

## Tune Into Safety

- ☐ One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).
- ☐ Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- ☐ Carefully read and understand the other enclosed instructions for proper use of this product.
- ☐ Do not allow children to climb on or play with furniture and TVs.
- ☐ Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- ☐ Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- ☐ Share our safety message about this hidden hazard of the home with your family and friends. Thank you!



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# Important Safety Instructions

- 1) **Read these instructions.**
- 2) **Keep these instructions.**
- 3) **Heed all warnings.**
- 4) **Follow all instructions.**



- 5) **Do not use this apparatus near water.**

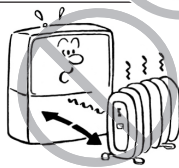


- 6) **Clean only with a dry cloth.**

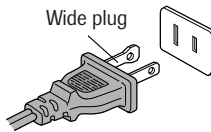
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.



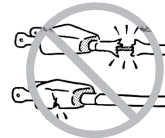
- 8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- 10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.

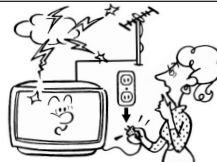


- 11) **Only use attachments/accessories specified by the manufacturer.**

- 12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**



- 14) **Refer all servicing to qualified service personnel.**

Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 15) **CAUTION:** To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.

# Installation, Care, and Service

## Installation

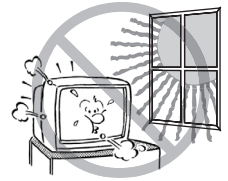
Follow these recommendations and precautions and heed all warnings when installing your TV:

- 16) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

- 17) **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!** Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.



- 18) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).



- 19) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

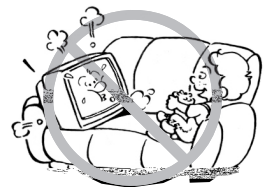


- 20) Never place items such as vases, aquariums, or candles on top of the TV.



- 21) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.



The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.

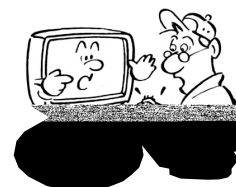
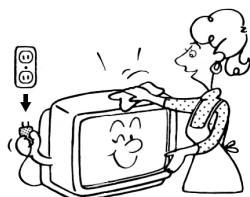
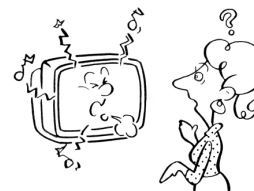
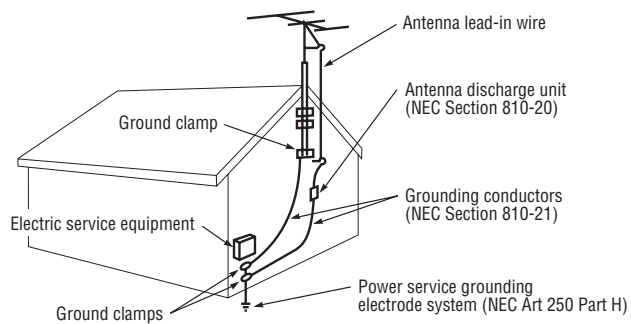
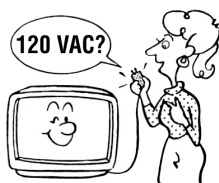


- 22) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

- 23) Never overload wall outlets and extension cords.



24) Always operate this equipment from



## Important Safety Precautions for Split Cabinet Feature (Models 57H83 and 65H83 only)

Toshiba TV models 57H83 and 65H83 have a split cabinet feature that allows disassembly of the cabinet into two sections during installation.

For details, please refer to the insert titled “Disassembly/ Reassembly Instructions for Split Cabinet Feature” that accompanied this owner’s manual in the accessory pack. If you do not have the insert, you can download a copy of it from our Web site ([www.toshiba.com/tacp](http://www.toshiba.com/tacp) in the U.S.A. or [www.toshiba.ca](http://www.toshiba.ca) in Canada). If you do not have access to the Internet, call 1-800-631-3811 in the U.S.A. or 1-800-268-3404 in Canada.



**WARNING:** If you split the cabinet for any purpose, **NEVER energize the bottom section until it is completely and properly installed.**

**Energizing the disassembled bottom section and subjecting it to intentional misuse (for example, exposing it to a foreign object) creates the potential for an electrical shock hazard that could result in death or serious injury.**

**CAUTION:** If you use the split cabinet feature, **ALWAYS** handle and treat the top section of the TV cabinet, which contains a glass mirror, with great care. If subjected to excessive mechanical abuse (for example, if bumped or dropped), the mirror may break, creating exposed glass fragments with sharp edges. Contact with these glass fragments may result in injury.

### Installation, Care, and Service

**CAUTION:** The split cabinet feature (models 57H83 and 65H83 only) allows disassembly of the cabinet into two sections during installation. If you use the split cabinet feature, follow these precautions while the two sections of the TV cabinet are disassembled:

- 1) Always handle and treat the top section of the TV cabinet (with the viewing screen), which contains a glass mirror, with great care. If subjected to excessive mechanical abuse (for example, if bumped or dropped), the mirror may break, creating exposed glass fragments with sharp edges. Contact with these glass fragments may result in injury.
- 2) Never temporarily locate the disassembled bottom section in an area where it may be exposed to foreign objects or abuse (for example, areas where children may be playing, where items may fall on top of the unit, or where liquids may spill into the unit). Failure to follow this instruction may result in damage to the optic components of the TV. **SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.**
- 3) Always keep the top and bottom sections of the TV cabinet in an upright position while disassembled. Failure to follow this instruction may result in damage to the TV, including but not limited to the optic components, cabinet, bezel, and glass mirror. **SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.**
- 4) **Never energize the bottom section of the TV cabinet while disassembled. Failure to follow this instruction could result in death or serious injury.**
- 5) Never place anything on top of the disassembled bottom section of the TV cabinet. Failure to follow this instruction may result in damage to the optic components. **SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.**
- 6) Never store or transport the unit while it is disassembled. Failure to follow this instruction may result in damage to the TV, including but not limited to the optic components, cabinet, bezel, and glass mirror. **SUCH DAMAGE IS NOT COVERED UNDER THE TOSHIBA LIMITED WARRANTY.**



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## Introduction

### Welcome to Toshiba

Congratulations! You have purchased one of the finest projection TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

This manual applies to models 46H83, 51H83, 57H83, and 65H83. Before you start reading, check the model and serial numbers 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 can also use the controls on the TV if they have the same name as those on the remote control.

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

### Note regarding Quick Connect Guide

The **Quick Connect Guide** automatically appears on-screen the first time the TV is turned on. This feature provides on-screen instructions to guide you through initial setup of your TV.

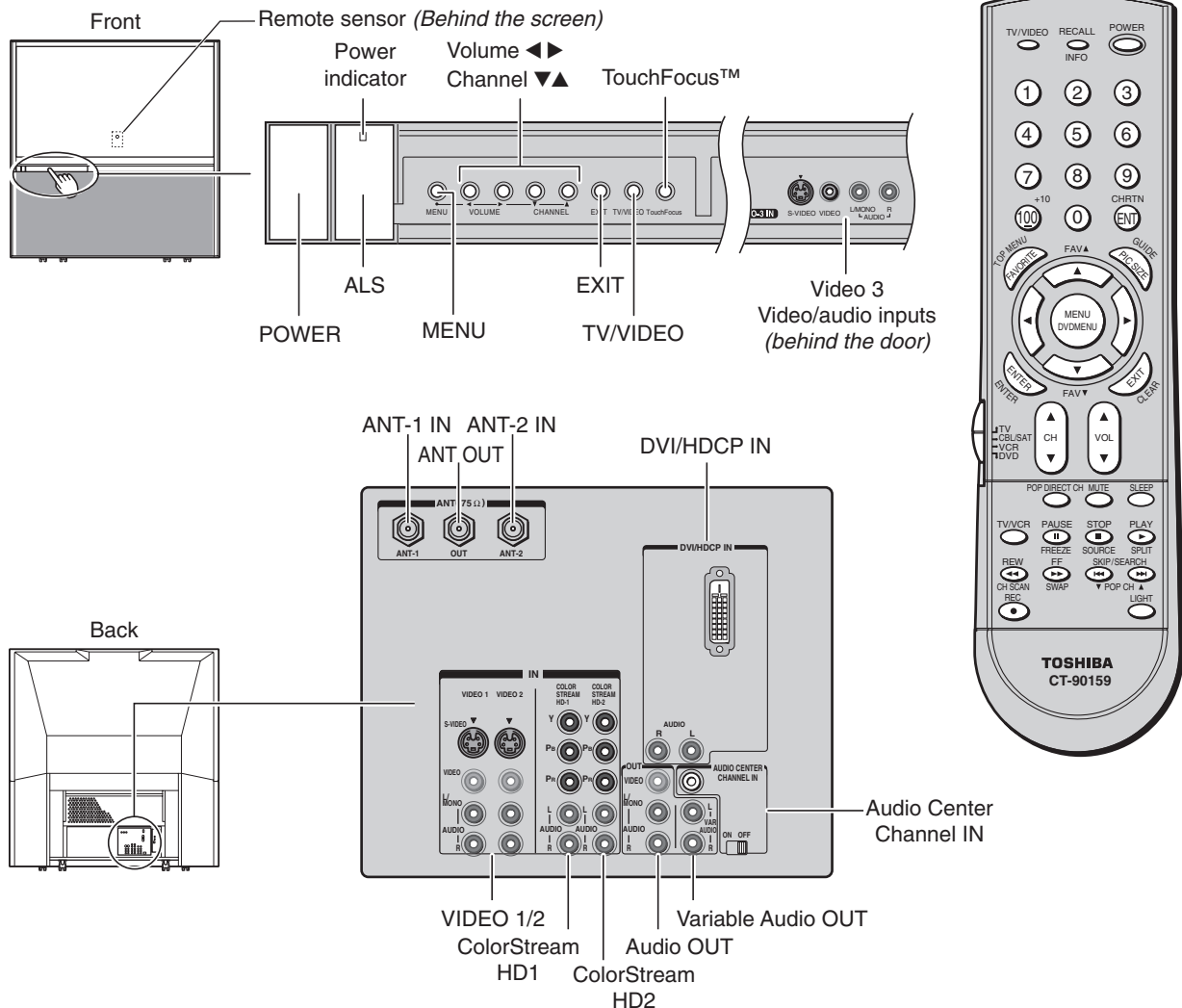
To stop the **Quick Connect Guide**, either press **EXIT** or turn off the TV.

See page 24 for details.

### Exploring your new TV

You can operate your TV using the buttons on the front panel or the remote control. The back panel and front panel (behind the door) provide all the terminal connections you will need to connect other equipment to your TV. See "Connecting your TV" on pages 8–15.

Illustrations represent 57H83.



## Connecting your TV

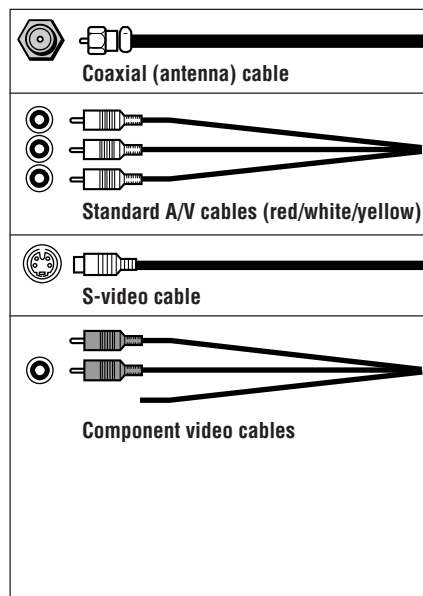
**Note:** Cables are not supplied with your TV.

- **Coaxial cable** is the cable that comes in from your antenna, cable TV service, or cable converter box. Coaxial cable uses “F” connectors.
- **Standard A/V (audio/video) cables** usually come in sets of three, and are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio. On your TV's back panel, the standard A/V inputs are color-coded in the same manner as the cables.
- **S-Video cable** is for use with video equipment that has an S-Video input.
- **Component video cables** come in sets of three, and are for use with video equipment that has component video inputs. (ColorStream® is Toshiba's brand of component video.)
- **DVI-D digital single-link cable** is for use with video equipment that has a DVI-D digital single-link connector (see page 14).

### NOTE REGARDING PICTURE QUALITY

When connecting video equipment to your Toshiba TV:

- **For GOOD picture quality:** Use a standard yellow video cable.
- **For BETTER picture quality:** If your equipment has an S-video input, use an S-video cable **instead of** a standard yellow video cable. (You still must connect the standard red and white audio cables for full system connection, but *do not connect the standard yellow video cable at the same time*, or the picture performance will be unacceptable.)
- **For BEST picture quality:** If your equipment has component video (or DVI) inputs, use either component video cables (or a DVI cable) **instead of** a standard video or S-video cable. (You still must connect the standard red and white audio cables for full system connection, but *do not connect the standard yellow video cable or an S-Video cable at the same time*.)



### CAUTION:

*Do not plug in any power cords until you have finished connecting all equipment.*

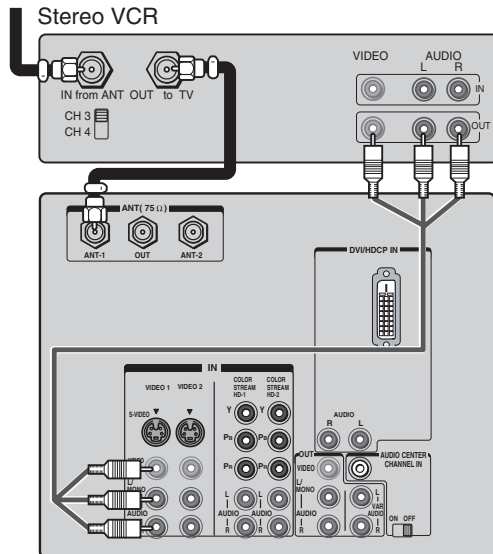
## Connecting a VCR

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.

You will need:

- two coaxial cables
- one set of standard A/V cables

From Cable Box or Antenna  
Stereo VCR



### 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 the standard video cable.*

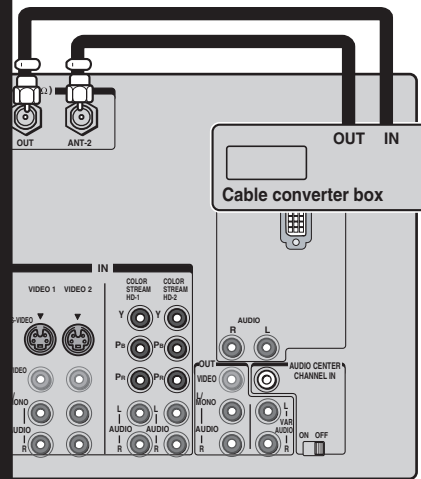
*Do not connect a standard video cable and an S-video cable to Video-1 (or Video-2) at the same time, or the picture performance will be unacceptable.*



## Cable converter box

allows you to watch basic and premium cable channels. To use the TV's features, select ANT-1. To view select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box

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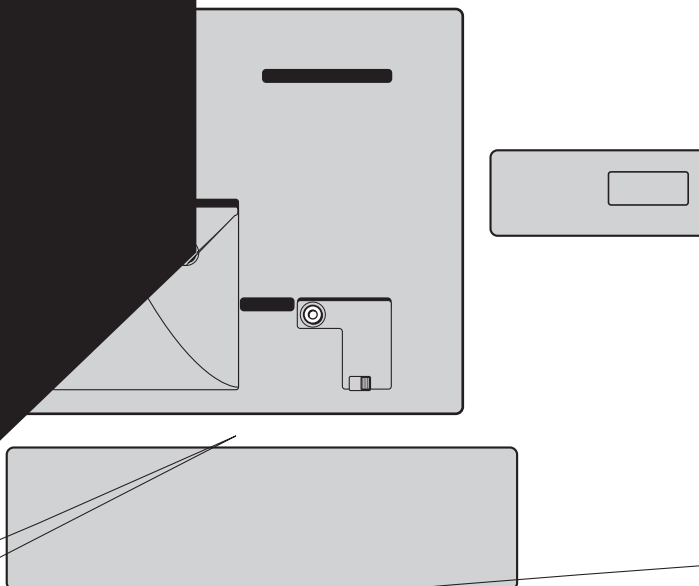


## Cable converter box and VCR

allows you to watch and record basic and premium videotapes, and record one channel while watching another. To watch basic cable and use the TV's features, select ANT-1. To watch basic cable channels or record with the VCR, select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

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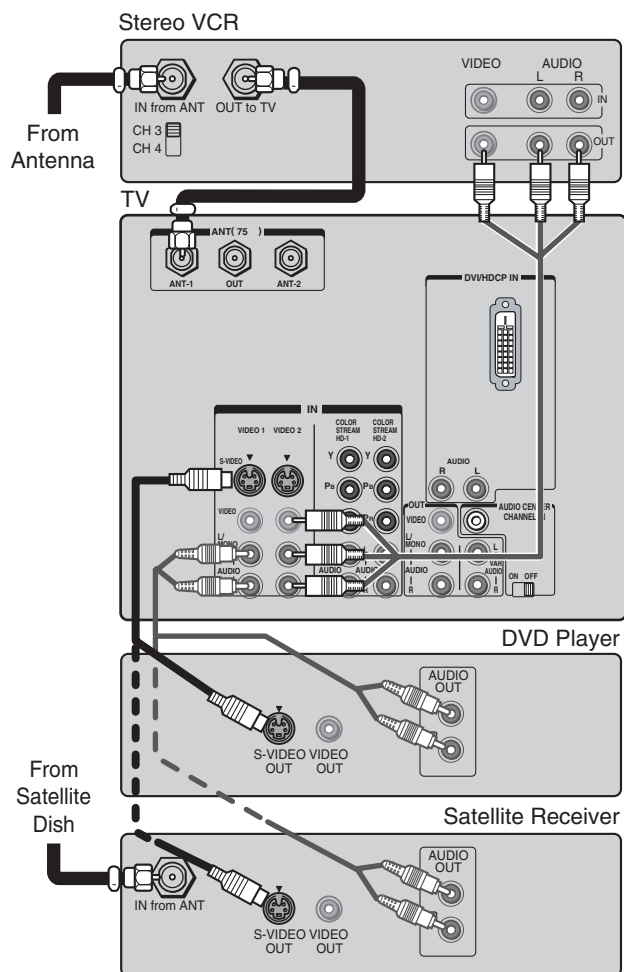


## Connecting a DVD player or satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, and TV programs, and record one TV channel while watching another channel.

You will need:

- two coaxial cables (three if satellite receiver is used)
- one set of standard A/V cables
- one pair of audio cables
- one S-video cable (between the TV and DVD player/satellite receiver)



### Note:

For the highest possible picture quality from a DVD player or satellite receiver without component video or DVI/HDCP, use an S-video cable. (If your DVD player has component video, see page 11. If your satellite receiver has component video, see page 12. If your DVD player or satellite receiver has DVI/HDCP, see page 14.)

Do not connect both an S-video cable and a standard video cable between the TV and DVD player/satellite receiver at the same time or the picture performance will be unacceptable.

Do not connect the DVD player/satellite receiver and VCR to the same video channel on the TV. (See the illustrations, which show the DVD player/satellite receiver connected to Video-1 on the TV, and the VCR connected to Video-2 on the TV.)

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

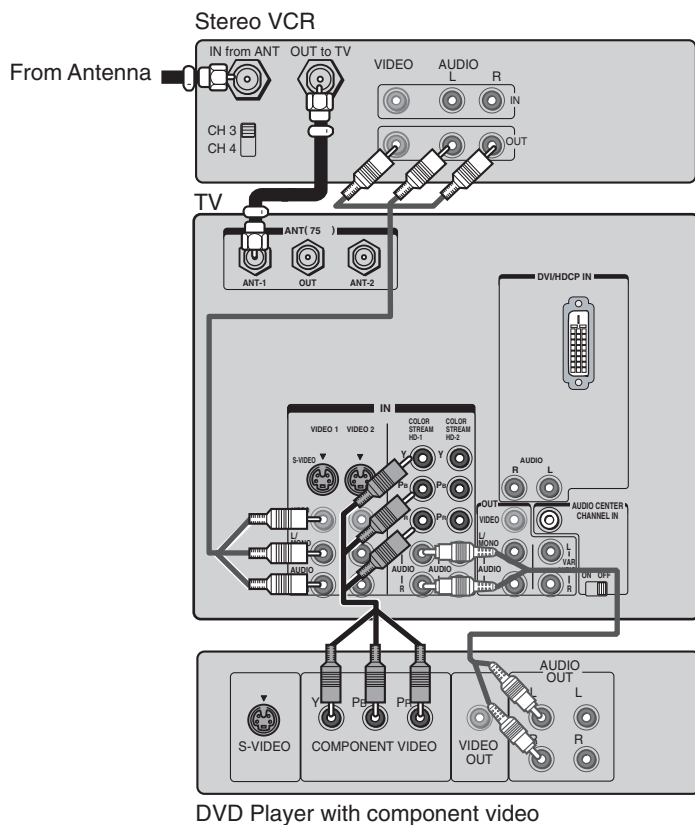
This connection allows you to watch DVD, VCR, and TV programs, and record TV programs.

Your TV has ColorStream® (component video) inputs. Connecting your TV to a DVD player with component video inputs (such as a Toshiba DVD player with ColorStream®) 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 ColorStream HD1 on the TV (see “Selecting the antenna input” on page 22).

You will need:

- two coaxial cables
- one set of A/V cables
- one pair of audio cables
- one set of component video cables (one S-video cable for a DVD player without component video inputs; see notes at right)



### Note:

For the highest possible picture quality, use component video cables (or a DVI-D digital single-link cable) between the TV and DVD player.

You can connect the component video cables to either set of the ColorStream jacks on the TV (HD1 or HD2).

For DVI/HDCP connection, see page 14.

The ColorStream HD1/HD2 and DVI/HDCP jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems; however, a 1080i signal will provide the best picture performance.

If your DVD player is not compatible with component video or DVI/HDCP, use the S-video connections (plus the standard audio connections) instead (see page 10).

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

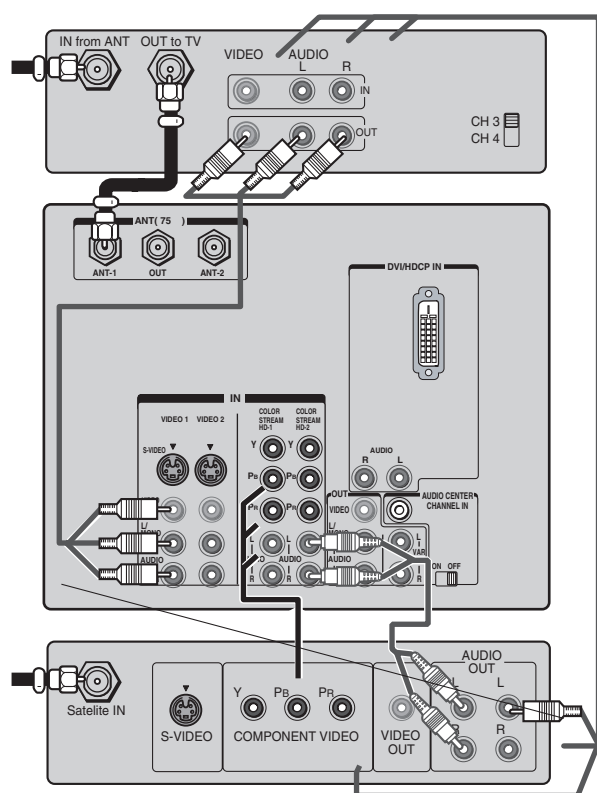
This connection allows you to watch DTV (digital TV), VCR, and TV programs, and record DTV and TV programs.

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

- To record and watch a DTV program, select LINE IN on the VCR, and select ColorStream HD2 (or VIDEO 1 for a non-ColorStream connection) on the TV (see “Selecting the antenna input” on page 22).
- To record a TV program while watching a DTV program, tune the VCR to the channel to record, and select ColorStream HD2 on the TV.
- To record and watch the same TV program, tune the VCR to the channel to record, and select VIDEO 1 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.

You will need:

- three coaxial cables
- two sets of A/V cables
- one pair of audio cables
- one set of component video cables (one S-video cable for a DTV receiver without component video; see notes at right)

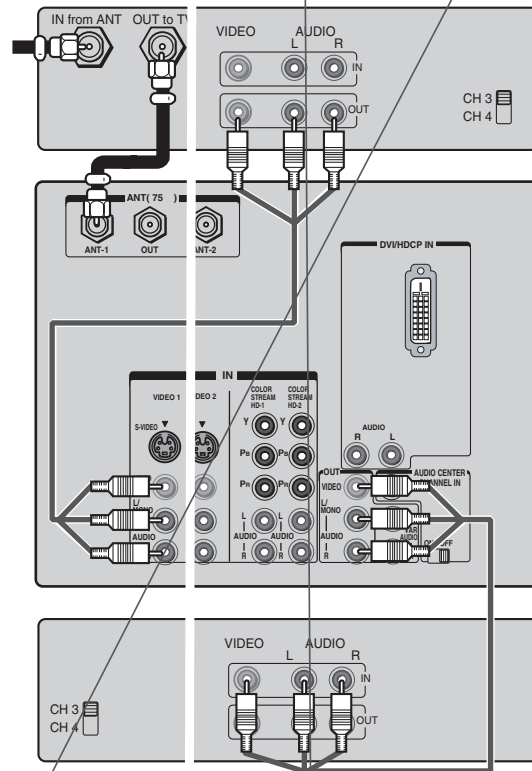


## Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR while watching a videotape. You can also record from one TV channel while watching another TV channel.

You will need:

- two coaxial cables
- two sets of A/V cables

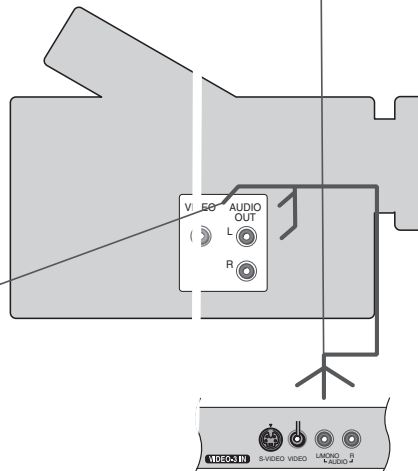


## Connecting a camcorder

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

You will need:

- one set of A/V cables





## Connecting a device to the DVI/HDCP<sup>1</sup> input

The DVI/HDCP input on your TV is designed to accept HDCP program material in digital form from EIA/CEA-861-compliant<sup>2</sup> consumer electronic devices, such as a set-top box or DVD player equipped with a DVI-D digital single-link output connection.<sup>3</sup>

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

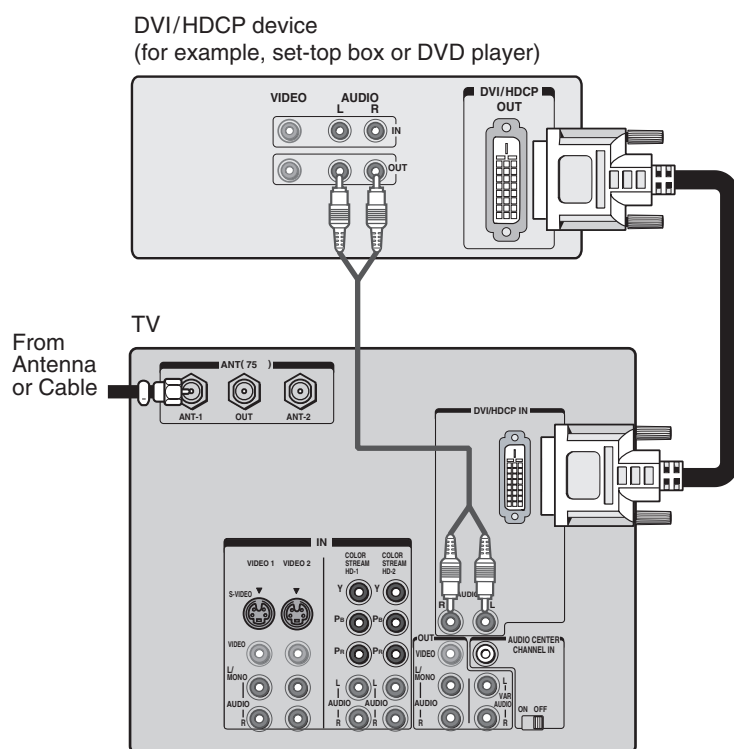
**Note:** *This TV is not intended for connection to and should not be used with a PC (personal computer).*

You will need:

- one coaxial cable
- one DVI-D digital single-link cable

**Note:** *For proper operation, the DVI-D cable length should not exceed 3m (9.8 ft). The recommended length is 2m (6.6 ft).*

- one pair of standard audio cables



### Notes:

<sup>1</sup> DVI/HDCP = Digital Visual Interface/High-bandwidth Digital Content Protection.

<sup>2</sup> EIA/CEA-861 compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for future reception of high-definition video signals.

<sup>3</sup> Consult your consumer electronics dealer for availability.

### Caution:

To ensure that the DVI/HDCP 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 DVI/HDCP device.
- When turning off your electronic components, **turn off the DVI/HDCP device first**, and then the TV.

## Connecting an audio system

This connection allows you to use an audio amplifier to adjust the audio level. This also allows you to use external speakers.

To control the audio, turn on the TV and the stereo amplifier, and turn off the built-in speakers (see "Turning off the built-in speakers" on page 55).

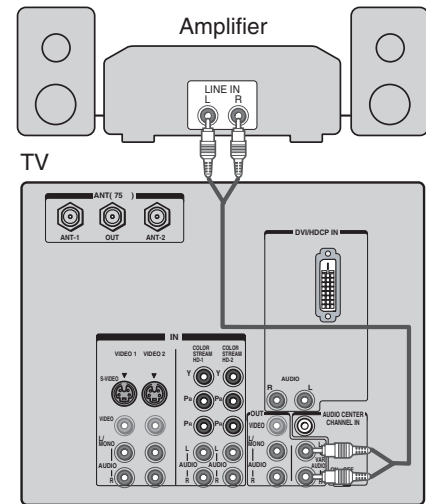
You will need:

- one pair of audio cables

### Note:

To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero).

For example, if the volume of the TV is set to 0, you will not be able to hear any sound, even the volume of the amplifier is at its highest level.



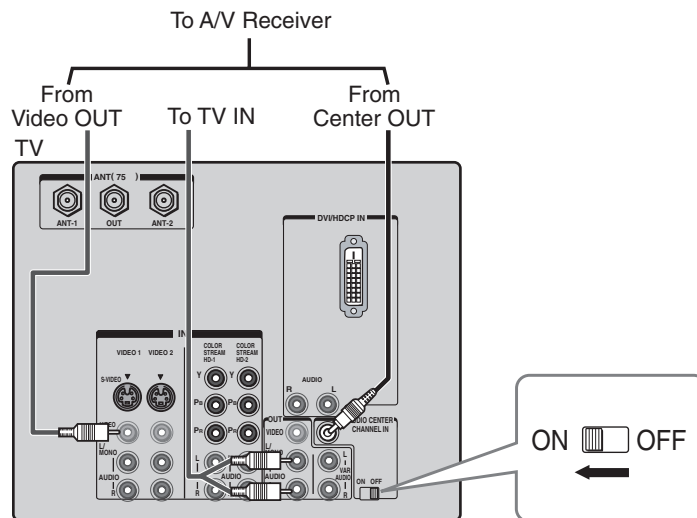
## Connecting an A/V receiver

This connection allows you to use an audio/video (A/V) receiver to enhance your TV's sound.

If you have a system with Dolby Pro Logic® surround sound, you can add to the realism of the sound by using the TV's internal speakers as center channel speakers.

You will need:

- one set of A/V cables
- one single audio cable for the audio center channel



### Note:

Refer to the instructions provided with your A/V receiver for details about your surround sound system.

When the Audio Center Channel ON/OFF switch is in the ON position, the TV speakers will function only as center channel speakers. At this time, the SBS feature should be set OFF. See page 54.

Adjust the volume for the center channel speakers using the center level control on the A/V receiver.

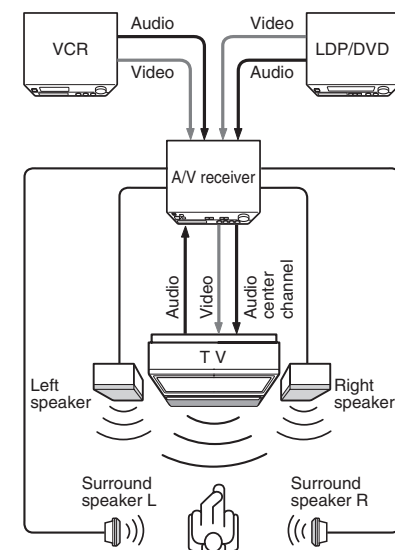
To use the TV speakers as normal speakers, set the Audio Center Channel ON/OFF switch to the OFF position.

### Caution:

To avoid damaging the TV speakers:

- Turn off the TV before connecting or disconnecting the Audio Center Channel cable.
- Do not connect from the A/V receiver's Center Speaker OUT (amplified signal) to the TV's Audio Center Channel IN.

### Dolby Pro Logic\* surround sound system connection example



\* Dolby Pro Logic is a registered trademark of Dolby Laboratories Licensing Corporation.

## Using the remote control

### Preparing the remote control for use

Your TV remote control can operate your TV and most cable converter boxes, satellite receivers, VCRs, DVD players, and HTIBs (home theater in a box), even if they are different brands.

#### If you have a Toshiba device:

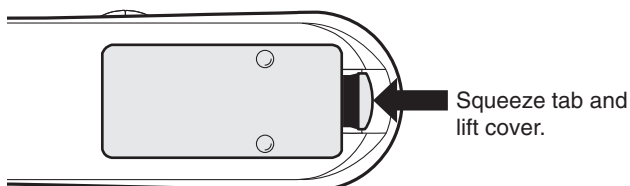
Your TV remote control is preprogrammed to operate most Toshiba devices. See page 19.

#### If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:

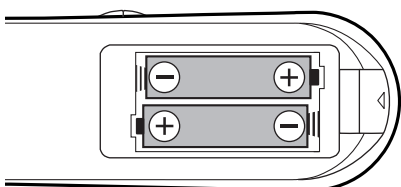
You can program the TV remote control so it will operate the other device. See pages 17–19.

### Installing the remote control batteries

1. Remove the battery cover from the back of the remote control.



2. Install two “AA” size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.



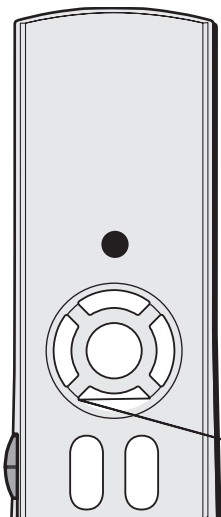
3. Reinsert the battery cover in the remote control until the tab snaps.

#### Caution:

- Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.
- Do not mix battery types or combine used batteries with new ones.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.
- If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.

#### Note:

If your Toshiba TV remote control does not operate all the features of your other device, use the original remote control for that device.



## Remote control codes (cont.)

**Satellite receiver  
(cont.)**

RCA: 008, 009, 013, 016  
Realistic: 030  
Samsung: 059  
Sony: 014, 055  
Star Choice: 057  
Star Trak: 025, 026, 037,  
054  
STS: 024  
Toshiba: 000, 001, 002,  
003, 004, 005, 006,  
007, 020, 031, 056  
Uniden: 021, 028, 030,  
032, 035, 039, 043,  
045, 047, 058  
Zenith: 027

**TV/VCR Combo**

Action: 078  
GE: 059, 062  
Goldstar: 065  
Panasonic: 065  
Precision: 078  
Quasar: 065  
Realistic: 079  
Sony: 074  
Toshiba: 057  
Zenith: 065

**DVD/VCR Combo**

Go Video:  
DVD=087, VCR=081  
JVC:  
DVD=088, VCR=082  
RCA:  
DVD=089, VCR=083  
Samsung:  
DVD=090, VCR=084  
Sanyo:  
DVD=091, VCR=085  
Zenith:  
DVD=092, VCR=086

**DVD player**

Aiwa: 006, 015  
Apex: 016, 017  
BOSE: 097  
Broksonic: 018  
Clarion: 019  
Classic: 020  
Daewoo: 021  
Denon: 022, 023, 024,  
025  
Emerson: 026, 027  
Fisher: 028  
Funai: 027  
GE: 001, 029, 030  
Go Video: 087  
GPX: 031

Hitachi: 005, 032, 033,  
034, 035  
JVC: 003, 007, 036,  
042, 088  
Kenwood: 037  
Konka: 008, 009  
Magnavox: 004, 038  
Memorex: 039  
Mintek: 040  
NAD: 026  
Nakamichi: 041  
Norcent: 043  
Onkyo: 044  
Oritron: 058  
Panasonic: 010, 045,  
046, 047, 048, 049,  
050  
Philips: 004, 051  
Pioneer: 052, 053, 054,  
055  
Proscan: 001, 056  
Qwestar: 057, 058  
RCA: 001, 002, 059, 089  
Sampo: 060  
Samsung: 061, 062, 086,  
090  
Sansui: 073  
Sanyo: 063, 091  
Sharp: 064, 067  
Sherwood: 074  
Sony: 011, 012, 065,  
066, 068, 069, 070  
Sylvania: 027  
Teac: 071  
Technics: 072  
Techwood: 075  
Toshiba: 000, 013, 076,  
077, 078  
Yamaha: 079, 080, 081  
Zenith: 014, 082, 092

**Portable DVD player**

Aiwa: 093  
Audiovox: 094, 095  
Panasonic: 024, 096, 099  
RCA: 098

**VCR**

Admiral: 049  
Aiko: 019  
Aiwa: 018  
Akai: 003, 004, 037,  
038, 039, 058, 069  
Audiovox: 010  
Bell & Howell: 007, 068  
Broksonic: 008, 017  
Calix: 010  
Carver: 026  
CCE: 019  
Citizen: 009, 010, 011,  
012, 013, 014, 015,  
019, 057, 073

Colortyme: 005  
Craig: 009, 010, 016,  
061, 065, 079  
Curtis Mathes: 001, 005,  
009, 012, 014, 040,  
048, 053, 056, 057  
Daewoo: 011, 013, 015,  
017, 018, 019, 057,  
078  
Daytron: 078  
Denon: 063  
Dimensia: 001, 048  
Electrohome: 010, 020,  
065  
Emerson: 003, 008, 010,  
011, 017, 018, 020,  
028, 039, 054, 057,  
062, 065, 068, 072  
Fisher: 007, 016, 021,  
022, 023, 057, 064,  
068, 070, 071, 079  
Fuji: 004, 041  
Funai: 018, 073  
Garrard: 018  
GE: 001, 002, 009, 040,  
042, 048, 056  
Go Video: 056, 059,  
061, 081  
Goldstar: 005, 010, 014,  
054, 056, 065, 067  
Gradiente: 018, 065  
Harman Kardon: 005  
Hitachi: 024, 025, 035,  
037, 042, 063, 070,  
080  
JBL: 076  
JC Penney: 005, 006,  
007, 008, 009, 010,  
023, 024, 025, 026,  
035, 056, 061, 063,  
065  
Jensen: 024, 025, 037,  
050  
JVC: 005, 006, 007,  
014, 037, 043, 050,  
062, 063, 068, 082  
Kenwood: 005, 006,  
007, 012, 014, 037,  
043, 050, 053, 068,  
071  
Kodak: 010  
LG: 010  
Lloyds: 053, 073, 079  
Logik: 061  
LXI: 010  
Magnasonic: 061, 065,  
078  
Magnavox: 026, 027,  
034, 044, 057, 061,  
072  
Marantz: 005, 006, 007,  
012, 014, 026, 053,  
067

Memorex: 007, 009,  
010, 016, 018, 034,  
049, 063, 065, 066,  
068, 075, 079  
MGA: 020, 028, 039  
MGN: 056  
Minolta: 024, 025, 035,  
063  
Mitsubishi: 020, 024,  
025, 028, 039, 043,  
065  
Montgomery Ward: 049  
Motorola: 049  
MTC: 009, 046, 061  
Multitech: 009, 012, 018  
NEC: 005, 006, 007,  
012, 014, 037, 043,  
053, 054, 067, 070  
Nikko: 010  
Noblex: 009  
Optimus: 010, 049, 065  
Optonica: 031  
Orion: 054, 057, 062,  
065, 068, 072  
Panasonic: 036, 045,  
046, 057, 061, 072,  
079  
Pentax: 012, 024, 025,  
035, 042, 053, 063  
Pentex Research: 014  
Philco: 026, 027, 063  
Philips: 026, 031, 044,  
057  
Pioneer: 006, 024, 043,  
055  
Portland: 012, 013, 015  
Proscan: 001, 002, 048  
Proton: 061  
Quasar: 045  
Radio Shack: 010, 031,  
065  
Radio Shack/Realistic:  
007, 009, 010, 016,  
018, 020, 021, 022,  
031, 049  
Radix: 010  
RCA: 001, 002, 003,  
009, 024, 025, 029,  
035, 040, 042, 045,  
048, 055, 056, 063,  
071, 083  
Realistic: 007, 009, 010,  
011, 016, 018, 020,  
021, 022, 031, 049,  
051, 056, 060, 065,  
075, 079  
Ricoh: 047  
Runco: 034  
Samsung: 009, 011, 038,  
056, 073, 084  
Sansui: 006, 037, 043,  
061

Sanyo: 007, 009, 016,  
054, 064, 068, 071,  
075, 079, 085  
Scott: 008, 011, 017,  
028, 030, 057, 065,  
072  
Sears: 007, 010, 016,  
021, 022, 023, 024,  
025, 035, 053, 057,  
063, 064, 065, 068,  
071, 075, 079  
Sharp: 013, 020, 031,  
049, 051, 060, 066  
Shintom: 004, 025, 032,  
061  
Signature: 049  
Signature 2000: 075  
Singer: 047, 061  
Sony: 004, 032, 033,  
041, 052, 058, 070,  
074, 076, 077, 080  
STS: 035  
Sylvania: 018, 026, 027,  
028, 044, 072  
Symphonic: 018, 050,  
051, 053, 073, 079  
Tandy: 007  
Tashiko: 010  
Tatung: 037  
Teac: 018, 029, 037  
Technics: 036  
Teknika: 010, 018, 065  
Toshiba: 000, 011, 021,  
023, 024, 028, 030,  
039, 057, 074, 078,  
079  
Totevision: 009, 010,  
065  
Unitec: 073  
Unitech: 009  
Vector Research: 005,  
006, 011, 012, 053  
Video Concepts: 005,  
006, 011, 012, 039,  
053  
Wards: 009, 010, 011,  
016, 018, 020, 024,  
025, 031, 035, 049,  
051, 056, 057, 060,  
065, 066, 079  
White Westinghouse:  
073  
XR-1000: 018  
Yamaha: 005, 006, 007,  
014, 037, 053  
Zenith: 004, 032, 034,  
041, 047, 069, 086

**HTIB**

Lasonic: 083  
Panasonic: 084  
Venturer: 085



## Using the remote control to operate a cable converter box, satellite receiver, VCR, DVD player, or HTIB (home theater in a box)

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so). See pages 17 and 18.

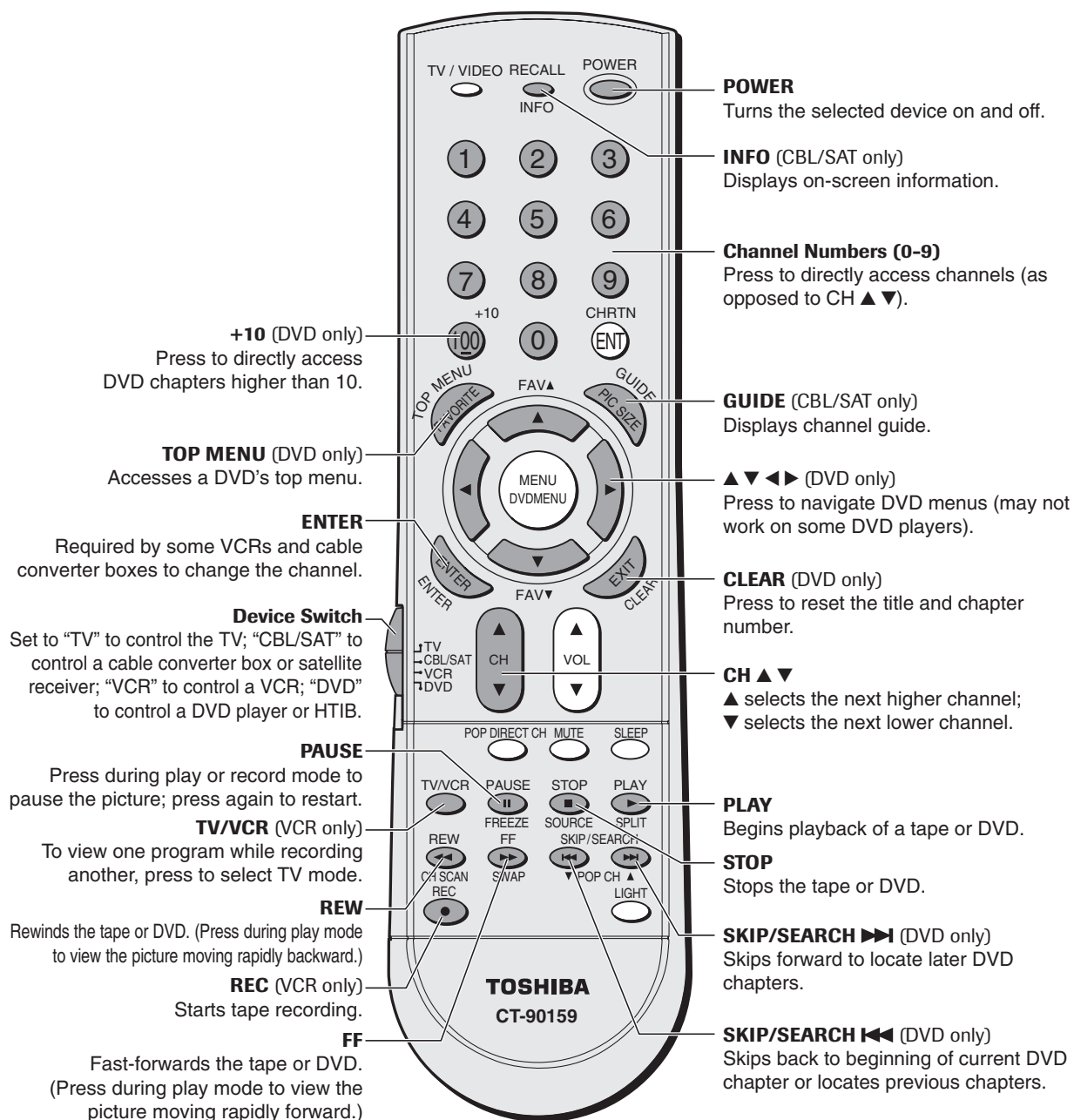
To use your TV remote control to operate a:

- cable converter box or satellite receiver, set the **Device Switch** to CBL/SAT.
- VCR, set the **Device Switch** to VCR.
- DVD player or HTIB, set the **Device Switch** to DVD.

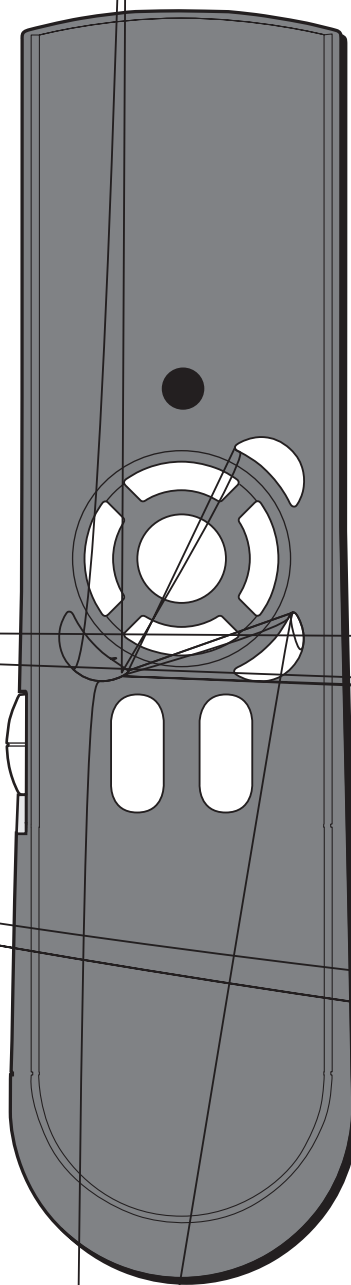
### Note:

Even after the TV remote control is programmed, it may not operate certain features on your other device. If this happens and you wish to use those features, you will need to use the device's original remote control.

**Point the remote control directly at the device.**



Using the  
Remote Control

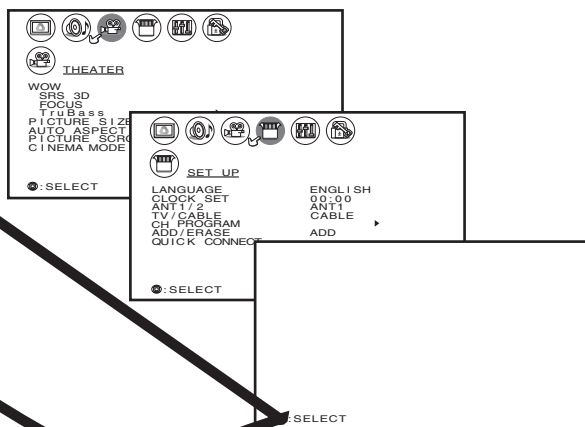
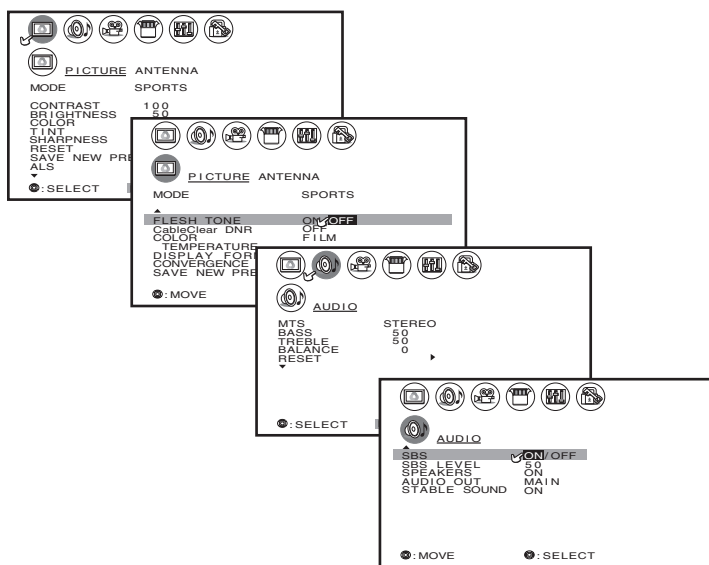


# Setting up your TV

## Learning about the menu system

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

1. Press MENU to display the menu system.
2. Press ◀ or ▶ to select menu.
3. Press ▲ or ▼ select an item.
4. Press ◀ or ▶ to select or adjust a setting.

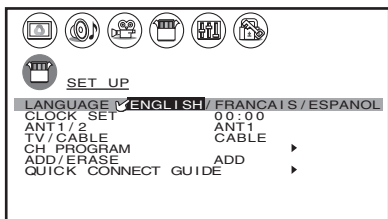


## Changing the on-screen display language

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

To select a language:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight LANGUAGE.



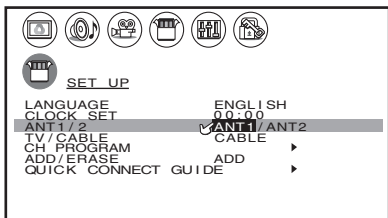
3. Press ◀ or ▶ to highlight your desired language.

## Selecting the antenna input

You can connect to two different antenna input sources (ANT 1 or ANT 2).

To select the antenna input using the menu system:

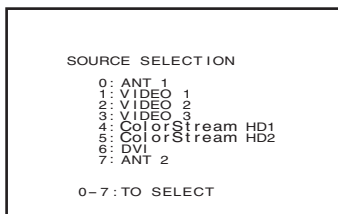
1. Press MENU, and then press ◀ or ▶ to highlight the SET UP menu.
2. Press ▲ or ▼ to highlight ANT 1/2.



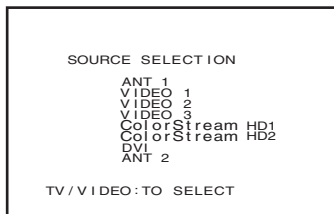
3. Press ◀ or ▶ to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

To select the antenna input using the TV/VIDEO button:

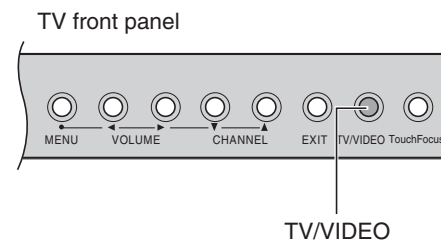
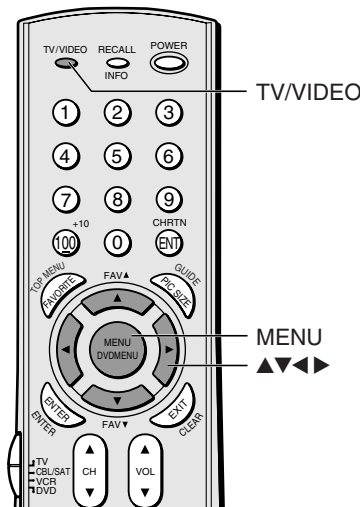
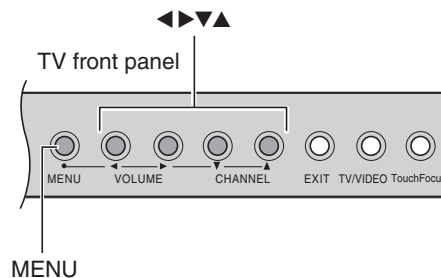
1. Press the TV/VIDEO button on the remote control or TV (see illustrations below). The current signal source displays in purple.
2. Continue pressing the TV/VIDEO button to select ANT 1 or ANT 2.



Pressing TV/VIDEO on the remote control displays the current signal source (press TV/VIDEO again or 0-7 to change)



Pressing TV/VIDEO on the TV changes the current signal source



**Please note the following regarding the DVI source selection:**

**This TV is not intended for connection to and should not be used with a PC (personal computer). See "Connecting a device to the DVI/HDCP input" on page 14 for details.**

## Adding channels to the TV's memory

When you press Channel ▲ or ▼, your TV will stop only on the channels stored in the TV's channel memory.

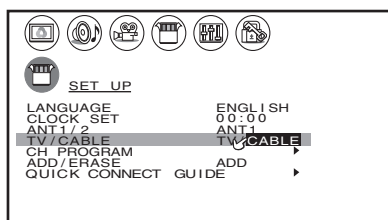
Follow the steps below and on the next page to program all active channels into the TV's memory.

### Programming channels automatically

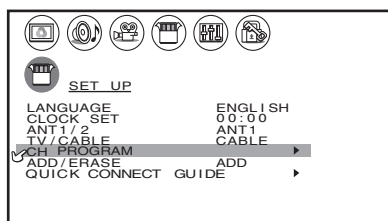
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 24).

To program channels automatically:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ until the TV/CABLE is highlighted.
3. Press ◀ or ▶ to highlight either TV or CABLE, depending on which you use. If you use an antenna, highlight TV; if you use cable, highlight CABLE.



4. Press ▼ to select CH PROGRAM.



5. Press ◀ or ▶ to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

While the TV is cycling through the channels, the message "Programming Now—Please Wait" appears.

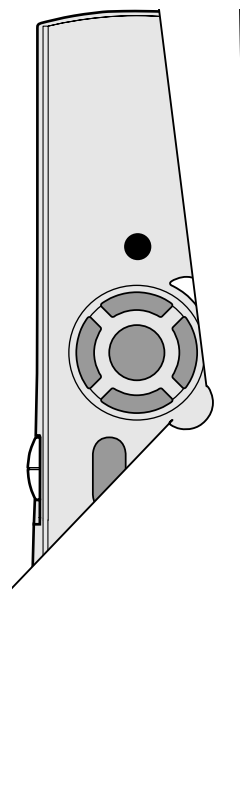
6. When channel programming is complete, the message "Completed" appears.
7. Press Channel ▲ or ▼ to view the programmed channels.

### Adding and erasing channels manually

After you have programmed the channels automatically, you can manually add or erase specific channels.

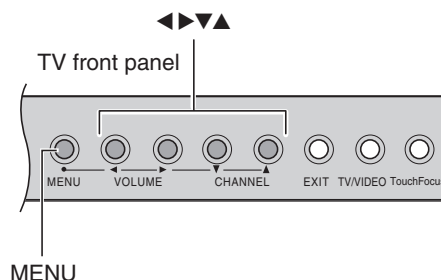
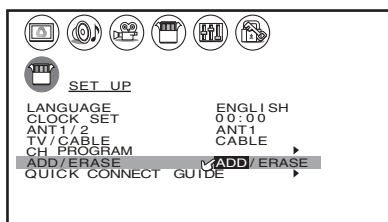
To add or erase channels:

1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.
2. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.





- Press ▲ or ▼ to highlight ADD/ERASE.



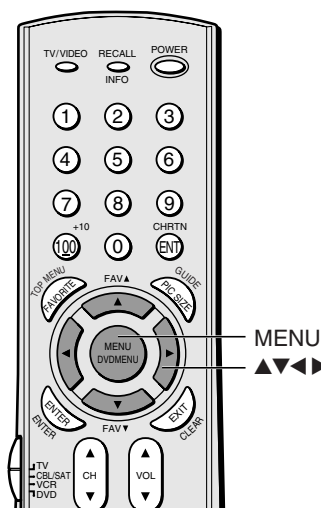
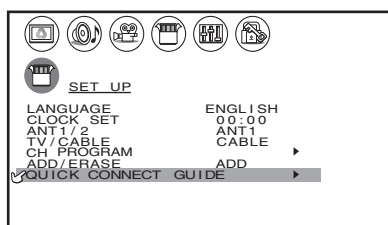
- Press ◀ or ▶ to select ADD or ERASE, depending on the function you want to perform.
- Repeat steps 1-4 for other channels you want to add or erase.

## Using the Quick Connect Guide

The Quick Connect Guide automatically starts the first time the TV is turned on.

You can change the current settings any time.

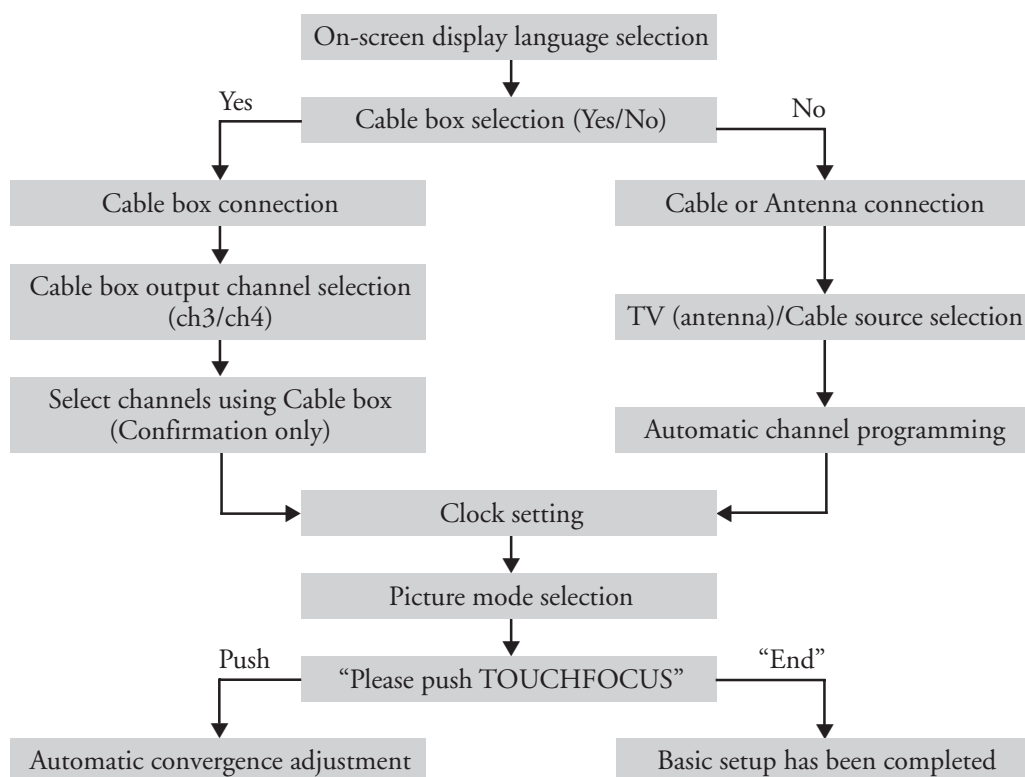
- Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
- Press ▲ or ▼ to highlight “QUICK CONNECT GUIDE.”



- Press ◀ or ▶ to enter the Quick Connection Guide mode. Advance the setup according to the guide displayed on the screen. You can set up the following items.

### Note:

To stop the Quick Connect Guide, press EXIT or turn off the TV.



## 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.

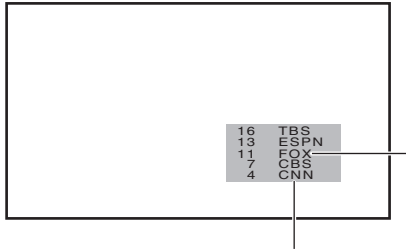
To change to the next programmed channel:

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

## Changing channels using SpeedSurf

To use SpeedSurf to change to a specific programmed channel:

1. Press and hold Channel ▲ or ▼ for about one second. The TV will enter the SpeedSurf mode.



2. Repeatedly press or hold Channel ▲ or ▼ while the SpeedSurf mode is on-screen to scroll the channel list. Release the button to display the highlighted channel.

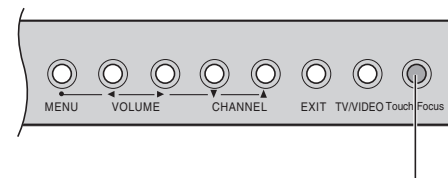
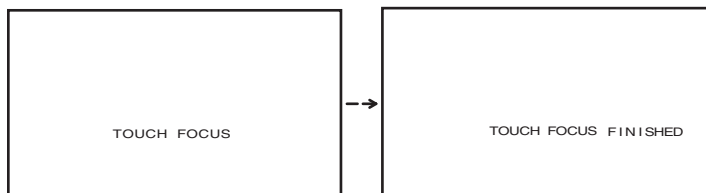
## Adjusting the color convergence

This projection TV uses three separate TV tubes: red, green, and blue. The red, green, and blue images are projected onto the screen where they converge to form a full-color picture. You can see a clear picture only when the three images converge correctly. Convergence may drift over time or if you move the TV. If you can see clear images on your TV screen, skip this procedure.

It is recommended that the adjustment is made only after the TV has been on for at least 30 minutes.

## Automatically adjusting the color convergence using TouchFocus™

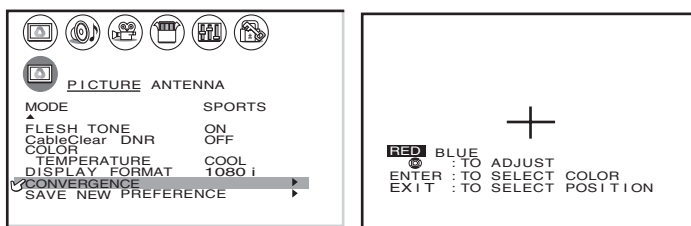
Press TOUCHFOCUS on the TV once. The TV will enter auto-convergence mode, and adjust convergence automatically.



When the adjustment is complete, the normal picture appears. If the error message “Touch Focus Error” appears, retry the TouchFocus adjustment.

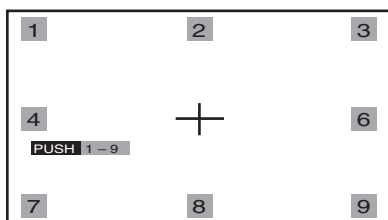
## Manually adjusting the color convergence

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight CONVERGENCE (below left).
3. Press ◀ or ▶ to display the Center Convergence menu (below right).

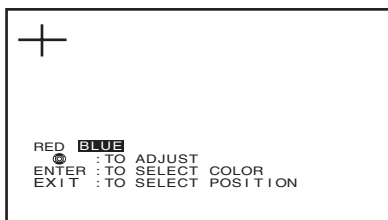


If you see separate red, blue, or green crossed lines (or red or blue shadows next to white lines), you need to adjust the convergence.

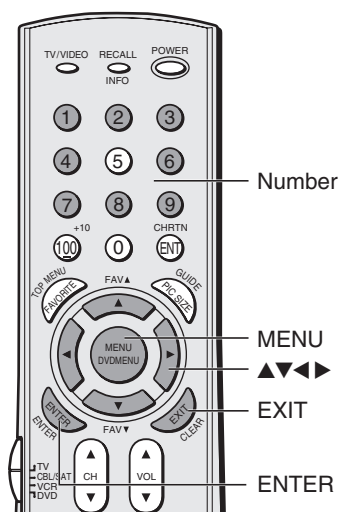
4. Press ENTER to highlight RED or BLUE, depending on which color needs adjusting. If both red and blue need adjusting, you will need to perform steps 4 and 5 twice.
5. Press ▲ (up), ▼ (down), ◀ (left), or ▶ (right) on the remote control to converge the red or blue line into the green line, which will turn completely white when correctly adjusted. When color convergence is correctly adjusted, you will see two single crossed white lines.
6. Press EXIT to display the Circumference Convergence menu.
7. Press the corresponding Number button (1–4 and 6–9) to select the area you want to adjust.



8. Press ENTER to highlight RED or BLUE, depending on which color needs adjusting. If both red and blue need adjusting, you will need to perform steps 8 and 9 twice for the selected area.



9. Press ▲▼◀▶ to converge the red or blue line into the green line, which will turn completely white when correctly adjusted. Repeat steps 8 and 9 until you see two single crossed white lines.
10. Press EXIT once to select another area to adjust, and then repeat steps 7–9.
11. Press EXIT twice to close the Convergence menu.



## Using the TV's features

### Adjusting the channel settings

#### 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.

1. Select the first channel (or video mode) 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 display.

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

#### Switching between two channels using SurfLock™

The SurfLock™ feature temporarily “memorizes” one channel in the CH RTN button, so you can return to that channel quickly from any other channel by pressing CH RTN.

To memorize a channel in the CH RTN button:

1. Select the channel you want to program into the CH RTN button.
2. Press and hold CH RTN for about 2 seconds until the message “Channel Memorized” appears (flashing) on the screen. The channel has been programmed into the CH RTN button.
3. Continue to change channels until your desired channel is selected.
4. Press CH RTN. The memorized channel will be selected.

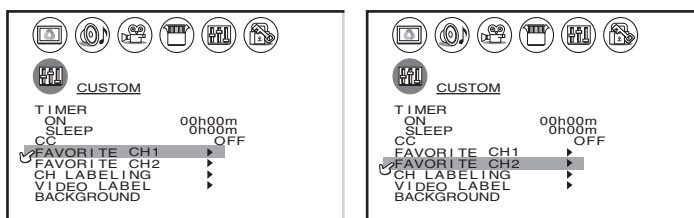
The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN button memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that were selected.

#### Programming your favorite channels

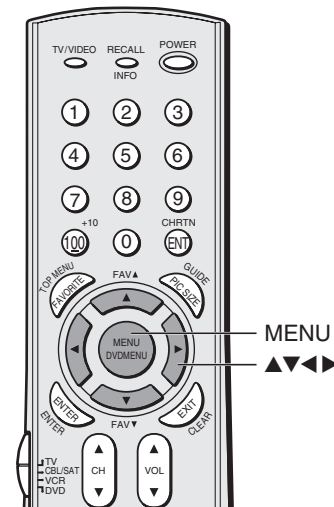
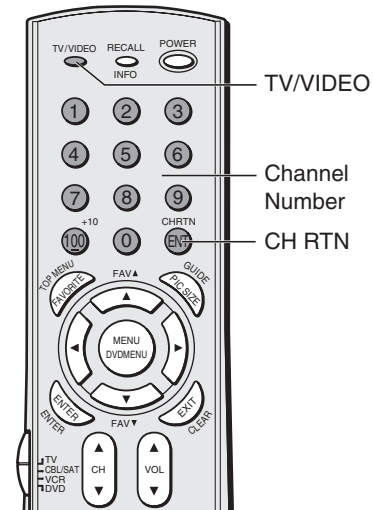
You can preset up to 7 of your favorite channels each for FAVORITE CH1 and FAVORITE CH2 modes using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

To program your favorite channels:

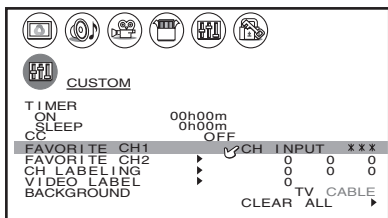
1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight FAVORITE CH1 or FAVORITE CH2.



(continued on next page)



- Press ◀ or ▶ to display the FAVORITE CH1 menu, for example. CH INPUT will be highlighted.



- Press the Channel Number buttons to enter one of your favorite channels.
- Press ENTER.
- Repeat steps 4 and 5 for other channels.

To select your favorite channels:

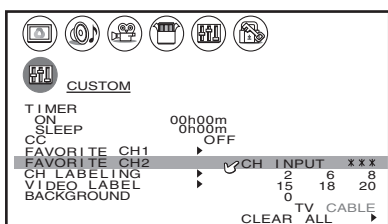
Press FAV ▼ or ▲.

To quickly scan through your favorite channels in a seven-picture multi-window:

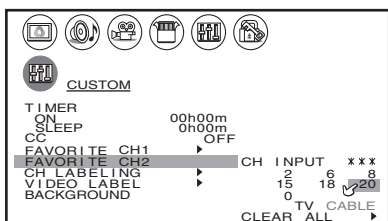
Press FAVORITE (see page 37).

To clear a favorite channel:

- Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- Press ▲ or ▼ to highlight FAVORITE CH2, for example.
- Press ◀ or ▶ to display the FAVORITE CH2 menu.



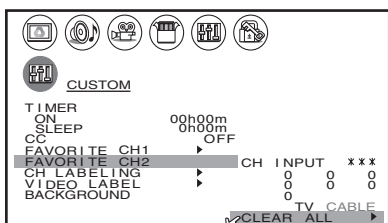
- Press ▲▼◀▶ to highlight the channel you want to clear, then press ENTER.



- Repeat step 4 for other channels.

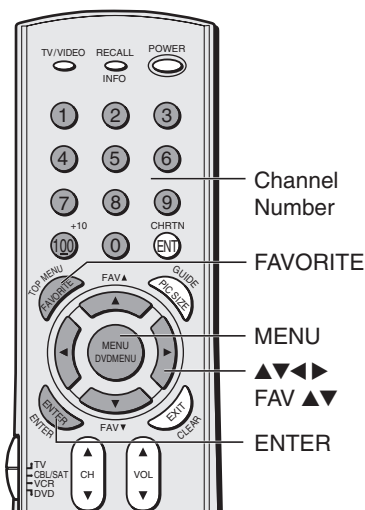
To clear all favorite channels at once:

Press ▲ or ▼ to highlight CLEAR ALL in step 4 above, and then press ◀ or ▶ to clear all favorite channels at once.



#### Notes:

- The FAV ▼▲ buttons operate as MENU ◀▶ buttons when a menu is on-screen.
- The favorite channel feature is not available in ANT2 mode.



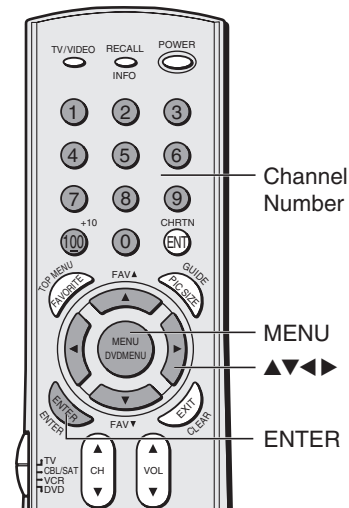
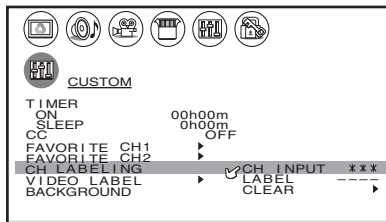


## Labeling channels

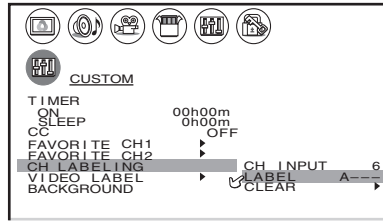
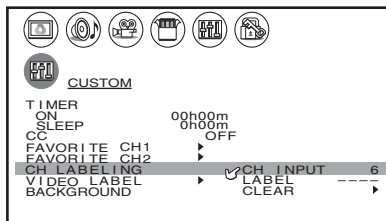
Channel labels appear above the on-screen channel number display each time you turn on the TV, change a channel, or press RECALL. You can choose any four characters to identify a channel.

To create channel labels:

1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight CH LABELING.
3. Press ◀ or ▶ to display the CH LABELING menu.  
CH INPUT will be highlighted.



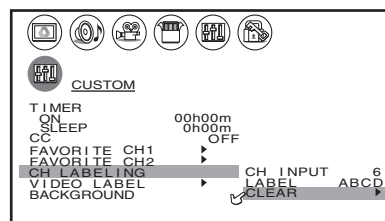
4. Press the Channel Number buttons to select a channel you want to label.
5. Press ▼ to highlight LABEL.
6. Press ◀ or ▶ repeatedly to select a character for the first space, and then press ENTER.



7. Repeat step 6 to enter the rest of the characters.  
If you would like a blank space in the label name, you must choose an empty space from the list of characters. Otherwise, a dash “-” will appear in that space.
8. Repeat steps 4–7 for other channels. You can assign labels to a maximum of 32 channels.

To erase channel labels:

1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight CH LABELING.
3. Press ◀ or ▶ to display the CH LABELING menu.
4. Press ▼ to highlight CH INPUT, then select the channel you want to clear with the Channel Number buttons.
5. Press ▼ to highlight CLEAR.
6. Press ◀ or ▶ to erase the channel label.
7. Repeat steps 4–6 to erase other channel labels.



## Viewing the wide-screen picture formats

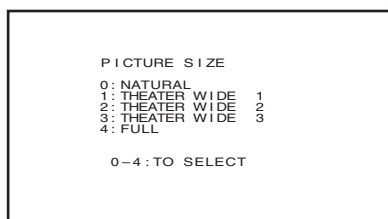
### (480i and 480p signals only)

You can view 480i and 480p format programs in a variety of picture sizes—Natural, Theater Wide 1, Theater Wide 2, Theater Wide 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. *See “Notice of possible adverse effects on TV picture tube,” below right.*

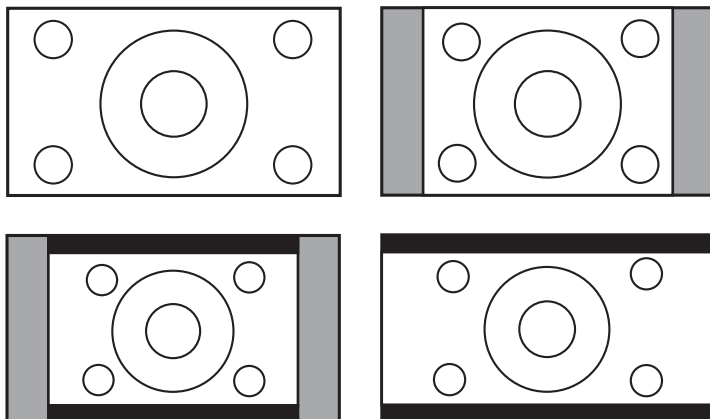
### Selecting the picture size

1. Press PIC SIZE on the remote control.
2. Press the corresponding number button (0–4) to select the desired picture size, as described below and on the next page.



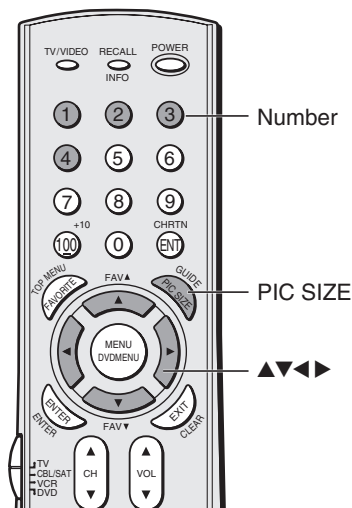
### Natural picture size

- 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 (see examples below).



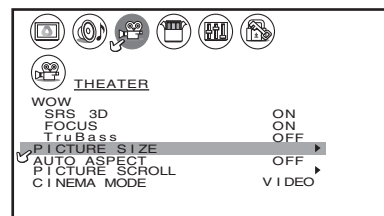
Natural picture size examples: The way the image displays will vary depending on the format of the program you are currently watching. See “Notice of possible adverse effects on TV picture tube” at right.

(Continued)



### Note:

- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p). Such formats will display in Natural picture size.
- You also can change the picture size by selecting PICTURE SIZE in the THEATER menu.

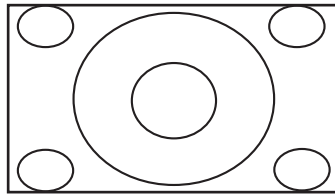


### NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY** because it is the result of misuse. See item 33 on page 4.

### Theater Wide 1 picture size

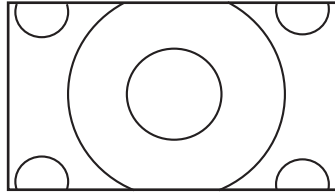
- The picture is non-uniformly enlarged—the center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- A small part of the picture at the top and bottom is hidden; however, this mode cannot be scrolled.



Theater Wide 1 picture size example

### Theater Wide 2 picture size

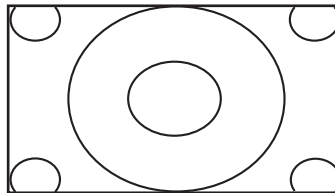
- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).
- Part of the picture at the top and bottom is hidden. To view the hidden areas, see “Scrolling the Theater Wide picture” on page 32.



Theater Wide 2 picture size example

### Theater Wide 3 picture size

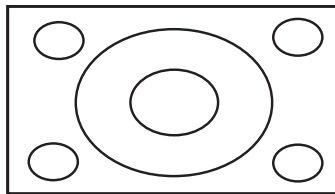
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but only slightly stretched taller.
- A small part of the picture at the top and bottom is hidden. To view the hidden areas (such as subtitles or captions), see “Scrolling the Theater Wide picture” on page 32.



Theater Wide 3 picture size example

### Full picture size

- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example

#### Note:

- To adjust the picture size, press **PIC SIZE** on the remote control or select **PICTURE SIZE** in the **THEATER** menu.
- The **PICTURE SIZE** feature is not available for some program formats (such as 1080i or 720p). Such formats will display in **Natural** picture size (see page 30).
- If you select **Theater Wide 2** or **3**, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 32) or try viewing the program in **Full** picture size.

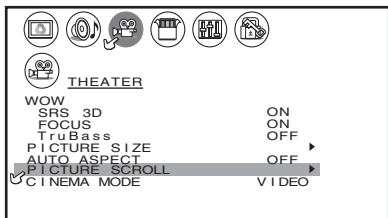
#### NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY** because it is the result of misuse. See item 33 on page 4.

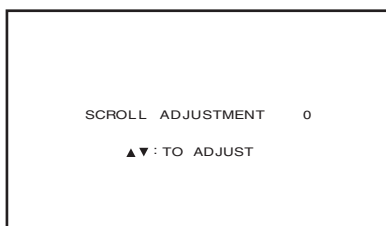
Using the special functions to change the size of the displayed image (for example, changing the width/height ratio) for the purpose of public display or commercial gain may infringe on copyright laws.

## Scrolling the Theater Wide picture (Theater Wide 2 and 3 only)

1. Press **PIC SIZE** to select either Theater Wide 2 or Theater Wide 3 mode.
2. Press **MENU**, and then press ◀ or ▶ until the **THEATER** menu appears.
3. Press ▲ or ▼ to highlight **PICTURE SCROLL**.

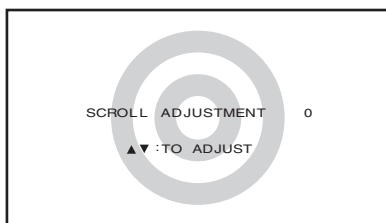


4. Press ◀ or ▶ to display the scroll adjustment mode.

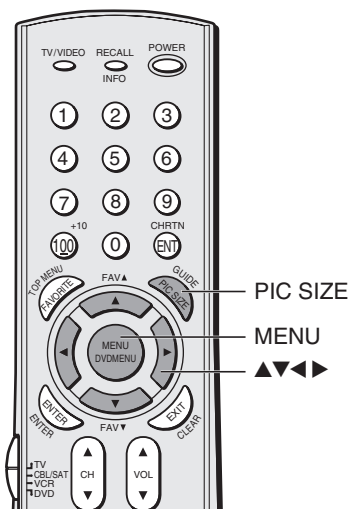


5. Press ▲ or ▼ to adjust the vertical position of the picture.

- Normal (center) position



- To raise the picture, press ▲.



### Note:

You can scroll the picture in Theater Wide 2 and Theater Wide 3 modes only. The scroll amounts are as follows:

- 480i signal source:
  - Theater Wide 1: Not adjustable
  - Theater Wide 2: +20 to -10
  - Theater Wide 3: +20 to -10
- 480p signal source:
  - Theater Wide 1: Not adjustable
  - Theater Wide 2: +20 to -10
  - Theater Wide 3: +20 to -10
- 720p signal source: Not adjustable
- 1080i signal source: Not adjustable

### NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY** because it is the result of misuse. See item 33 on page 4.

Using the AUTO ASPECT feature (480i signals only)

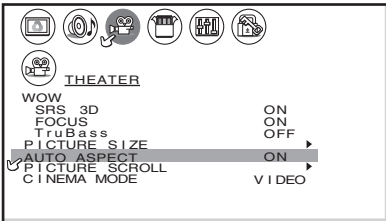
When the AUTO ASPECT feature is set to ON and the TV receives a 480i signal, the picture size is automatically selected (as described in the following table).

Aspect ratio of signal source	Automatic aspect size (automatically selected when AUTO ASPECT is ON)
4:3	Theater Wide 2
16:9	Full
Not defined (no ID-1 data)	User-selected picture size (pgs. 30–31)

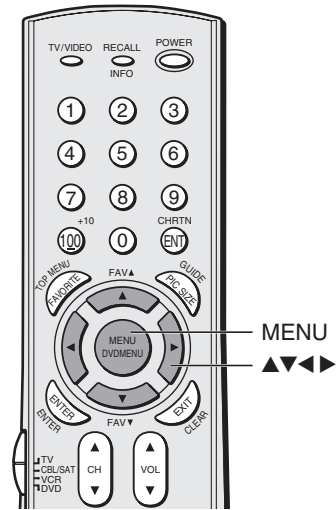
If the signal does not include aspect information, the picture size you selected on pages 30–31 is displayed.

To turn on the AUTO ASPECT feature:

- 1. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
- 2. Press ▲ or ▼ to highlight AUTO ASPECT, and then press ◀ or ▶ to select ON.



**Note:**  
The AUTO ASPECT feature is not available when viewing antenna (cable) or DVI input sources.



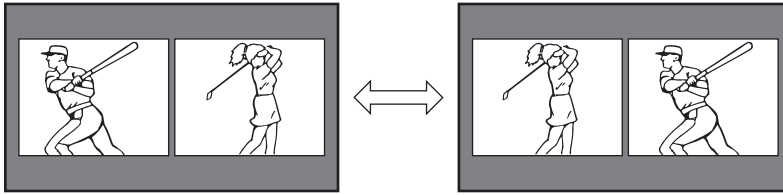
**NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE**

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as still PIP/POP windows or black/gray bars in wide-screen picture or PIP/POP formats) can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY** because it is the result of misuse. See item 33 on page 4.



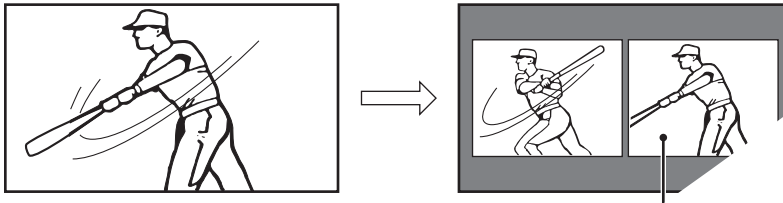
## Switching the main and POP pictures

Press SWAP while you are using the POP feature to switch the main and POP pictures.



## Freezing the POP picture

1. Press FREEZE while the POP is not on the screen.  
The POP window will appear with a still picture.
2. Press FREEZE again to renew the still picture.

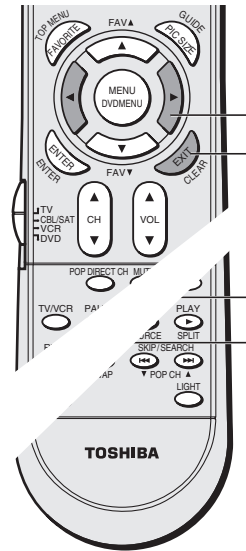
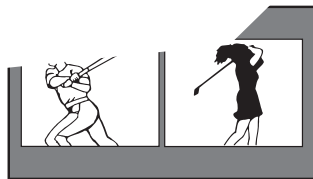


To erase the still POP window:  
Press EXIT.

## Adjusting the size of the double-

When the input signals of the main window are 480i, you can adjust the size of each window to fit the size (in 9 steps).

are 480i, you  
◀ or ▶ to change





## POP double-window aspect ratio

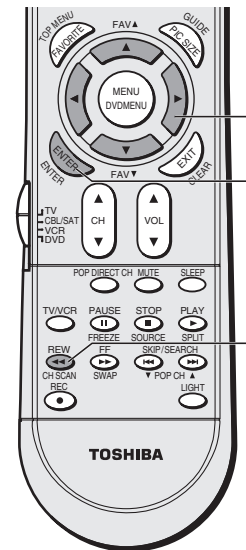
The POP double-window feature displays each picture according to its input signal aspect ratio, as illustrated below.



## Using the programmed channel search function

You can use the programmed channel search function to quickly scan the channels you programmed into the TV's memory (page 23).

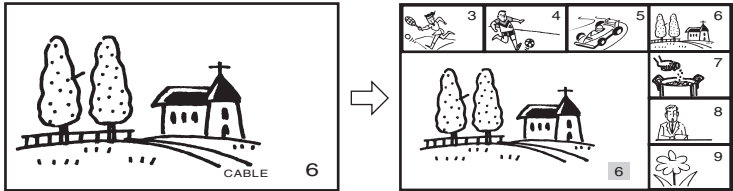
1. Press CH SCAN.  
The TV automatically enters POP mode, and begins a seven-picture scan of your programmed channels.



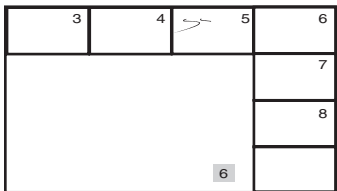
Using the favorite channel search function

You can use the favorite channel search function to quickly scan your favorite channels (see “Programming your favorite channels” on page 27).

- 1. Press FAVORITE.  
The TV automatically enters POP mode, and begins a seven-picture scan of your favorite channels in the POP window.



- 2. Press ▲▼◀▶ to select one of the seven pictures (becomes a moving picture). The main picture is an always moving picture.
- 3. Press ENTER to display the channel you selected in step 2 as a normal picture.

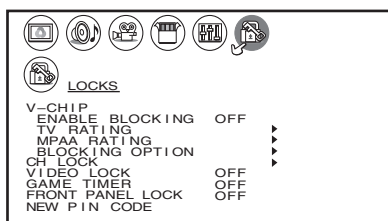


## Using the LOCKS menu

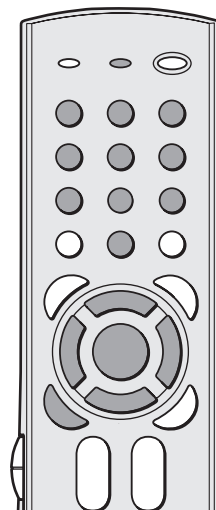
The LOCKS menu includes the V-Chip, CH Lock, Video Lock, and New PIN Code functions. You can use these functions after entering the correct PIN code.

### Entering the PIN code

1. Press MENU, and then press ◀ or ▶ until the LOCKS menu appears.



2. Press ▲ or ▼ to display the PIN code entering mode.



## 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.

### ENABLE BLOCKING

1. From the LOCKS menu, select ENABLE BLOCKING.
2. Press ◀ or ▶ to select ON or OFF.  
ON : To enable your setting (Lock)  
OFF: To release your setting (Unlock)

**Note:** The CH LOCK function is not affected with this selection.

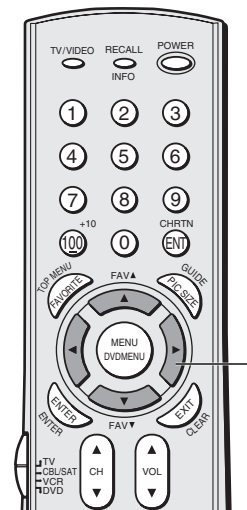
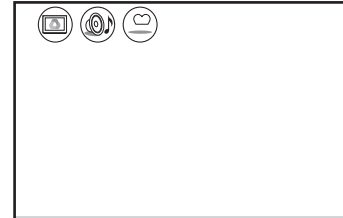
### TV RATING (Independent rating system for broadcasters)

1. From the LOCKS menu, select TV RATING.
2. Press ◀ or ▶ to display the TV RATING menu.
3. Press ▼ or ▲ to select item.
4. Press ▶ to lock (display "X")  
Press ◀ to unlock (display "✓")
5. Repeat steps 3 and 4 to set the next item.

The TV age-based ratings and content themes you can be lock are listed in the table below.

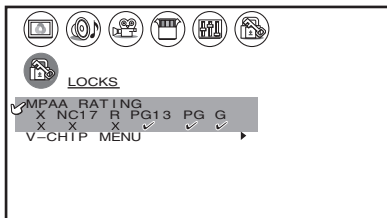
Ratings	Description and Content themes
MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) <b>L) Crude or indecent language S) Explicit sexual activity V) Graphic violence</b>
14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) <b>D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence</b>
PG	Parental Guidances Suggested (This program contains material that parents may find unsuitable for younger children.) <b>D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence</b>
G	General Audience (Most parents would find this program suitable for all ages.)
Y7, Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated Y7FV.)
Y	All Children (This program is designed to be appropriate for all children.)

LOCKS menu



## MPAA RATING (Independent rating system for movies)

1. From the LOCKS menu, select MPAA RATING.
2. Press ◀ or ▶ to display the MPAA RATING menu, then press ▼ or ▲ to highlight MPAA RATING.



3. Press ▶ to lock ("X") or press ◀ to unlock ("✓").

The movie ratings you can lock are described as follows:

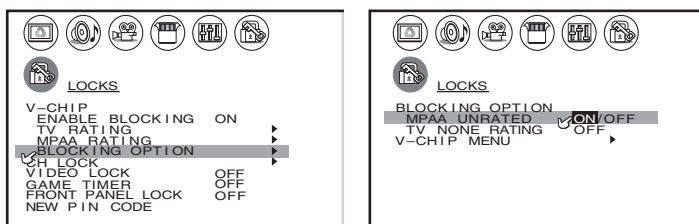
- X : X-rated (For adults only)
- NC17: Not intended for anyone 17 and under
- R : Restricted (Under 17 requires accompanying parent or adult guardian.)
- PG13 : Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
- PG : Parental Guidance Suggested (Some material may not be suitable for children)
- G : General Audience (Appropriate for all ages)

## BLOCKING OPTION

1. From the LOCKS menu, select BLOCKING OPTION.
2. Press ◀ or ▶ to display the BLOCKING OPTION menu, then press ▲ or ▼ to select item.

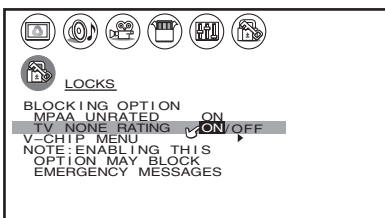
### MPAA UNRATED:

Press ◀ or ▶ to select ON (Lock) or OFF (Unlock) for unrated programs in the MPAA rating system.



### TV NONE RATING

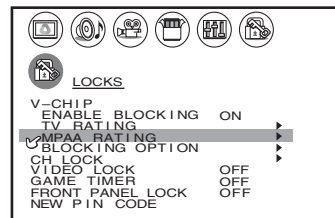
Press ◀ or ▶ to select ON (Lock) or OFF (Unlock) for programs rated NONE in the TV PARENTAL GUIDELINES.



### V-CHIP MENU:

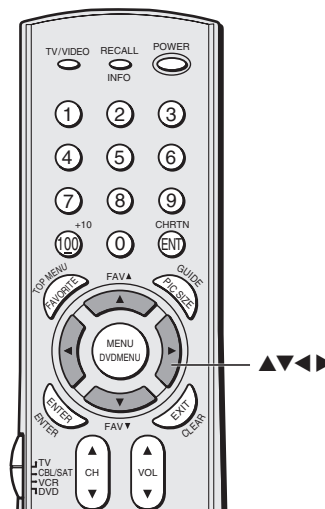
Press ◀ or ▶ to return to the LOCKS menu.

## LOCKS menu



To select each item:

Press ▼ or ▲.

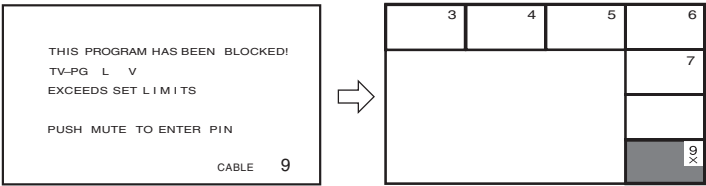


### Caution:

Setting the TV None Rating to ON may block the broadcast of emergency information. The menu will display the note, "Enabling this option may block emergency messages" to warn you of this possibility.

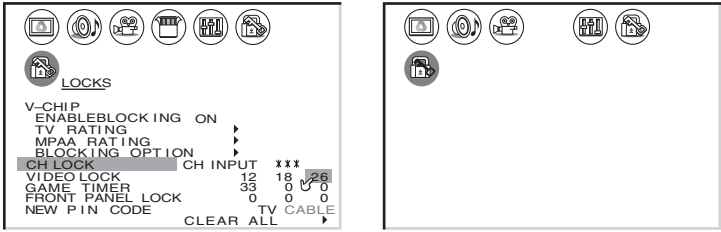
Unlocking programs temporarily

- 1. If you try to watch a TV program that exceeds the rating limits you set, the TV enters program lock mode. After 4 seconds, the TV starts the auto favorite channel search function (see page 37). You can either unlock the program temporarily (see steps 2-4) or select a non-locked program to watch.



To unlock individual channels:

1. From the LOCKS menu, select CH LOCK.
2. Press ◀ or ▶ to display the CH LOCK menu.
3. Press ▲▼◀▶ to highlight the channel you want to unlock, then press ENTER.



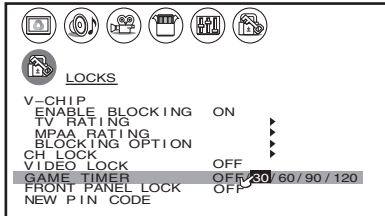


## Using the game timer

You can use the GAME TIMER feature to automatically activate the VIDEO LOCK feature, to set a time limit for playing a video game (the VIDEO LOCK is set to VIDEO).

To set the game timer:

1. From the LOCKS menu, select GAME TIMER.
2. Press ◀ or ▶ to select the amount of time until the video lock is activated (30, 60, 90, or 120 minutes). When the number is highlighted, the timer will start countdown.



To cancel the game timer:

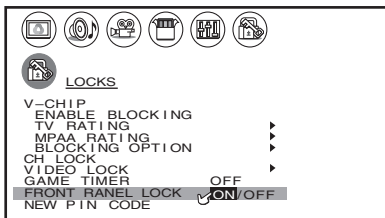
Select OFF in step 2 above.

## Using the front panel lock feature

Lock the front panel buttons to prevent the buttons from being pressed accidentally (by children, for example). When the front panel lock is in ON, all control buttons on the TV front panel (except POWER) do not operate.

To lock the front panel:

1. From the LOCKS menu, select FRONT PANEL LOCK.
2. Press ◀ or ▶ to highlight ON.



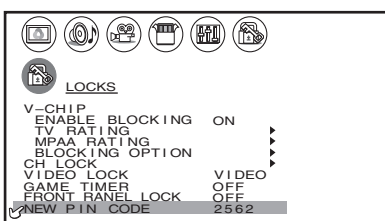
If a button on the front panel is pressed, the message “Not Available” appears.

To unlock the front panel:

Highlight OFF in step 2 above, or press and hold the VOL ◀ button on the TV for about 10 seconds until the message “Front Panel Lock: Off” appears on the screen.

## Changing the PIN code

1. From the LOCKS menu, select NEW PIN CODE.
2. Press the Number buttons (0-9) to enter a 4-digit code. The numbers you enter will replace the dashes in the display.

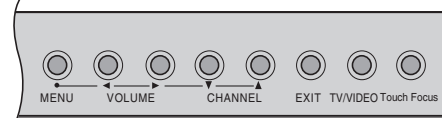


3. Press ENTER. The new PIN code is now active.

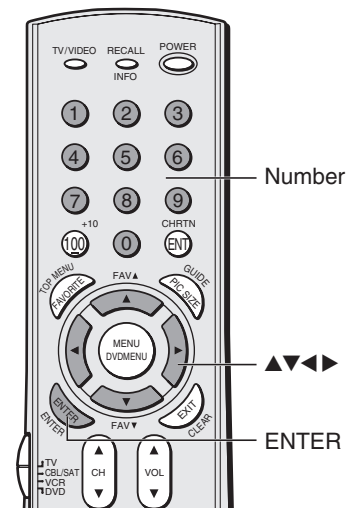
### Note:

To watch a VIDEO source after the game timer has activated the video lock, you will need to set the VIDEO LOCK feature to OFF (in the LOCKS menu).

TV front panel



Buttons to be locked



## Adjusting the picture

### Selecting the picture mode

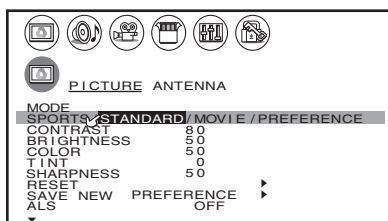
You can select your desired picture type from four picture modes: Sports, Standard, Movie, and Preference.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture setting (factory setting)
Movie	Movie-like picture setting (factory setting)
Preference	Your personal preference*

\*(see “Saving new preference” on page 45.)

To select the picture mode:

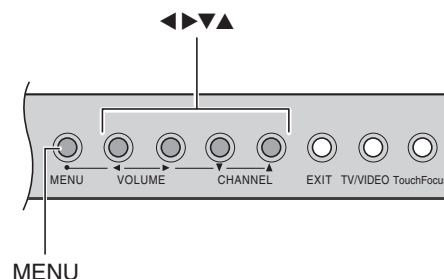
1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▼ or ▲ to select MODE.
3. Press ◀ or ▶ to highlight the mode you prefer.



#### Note:

If you select one of the factory-set picture modes (SPORTS, STANDARDS, or MOVIE) and then change a picture quality setting (for example, increase the contrast), the picture mode automatically changes to PREFERENCE in the Picture menu.

To save your new picture quality settings, you must select SAVE NEW PREFERENCE (see page 45) before closing the Picture menu or the TV will return to the previous picture mode.



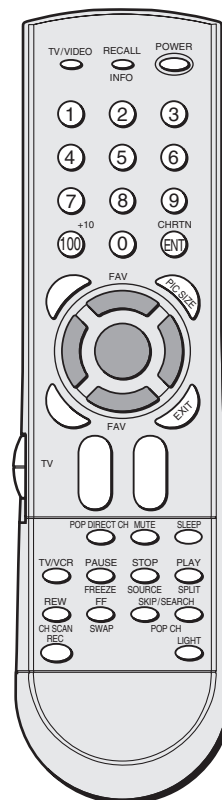
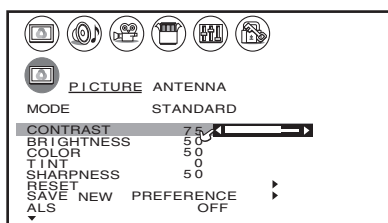
### Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the contrast, brightness, color, tint, sharpness, flesh tone, noise reduction and color temperature.

Selection	◀ Pressing ▶	
contrast	lower	higher
brightness	darker	lighter
color	paler	deeper
tint	reddish	greenish
sharpness	softer	sharper

To adjust the picture quality:

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



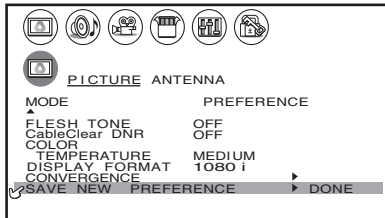
The PICTURE qualities you adjusted can be saved in the TV's memory with the SAVE NEW PREFERENCE feature (see page 45). You can keep these settings or choose factory set options, as described under “Selecting the picture mode” above.

## Saving your new preferences

You can save the PICTURE qualities (contrast, brightness, color, tint, and sharpness) you adjusted in the picture preference mode.

To save your new preferences:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight SAVE NEW PREFERENCE.
3. Press ◀ or ▶. When complete, the menu displays “DONE”.



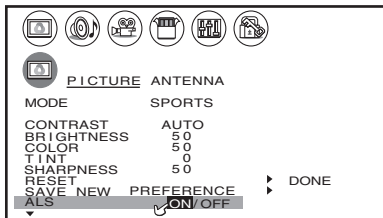
The mode automatically change to PREFERENCE (see “Selecting the picture mode” on page 44).

## Using the ALS (ambient light sensor) feature

The ALS feature automatically adjusts the picture contrast according to current lighting conditions. For example, when the room is dark, the ALS will automatically reduce the contrast (which reduces eye strain). ALS is activated when the ALS menu is set to ON.

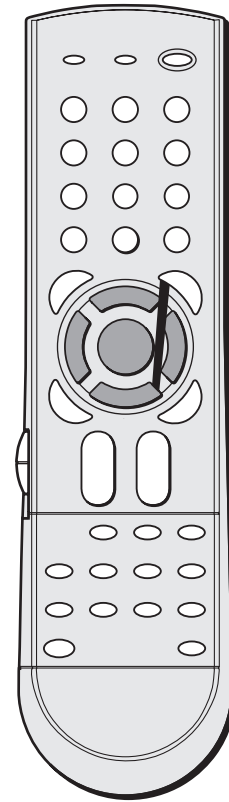
To activate the ALS:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight ALS.
3. Press ◀ or ▶ to highlight ON. The CONTRAST setting changes to AUTO, and is not adjustable while the ALS feature is on.



To deactivate the ALS:

Highlight OFF in step 3 above.

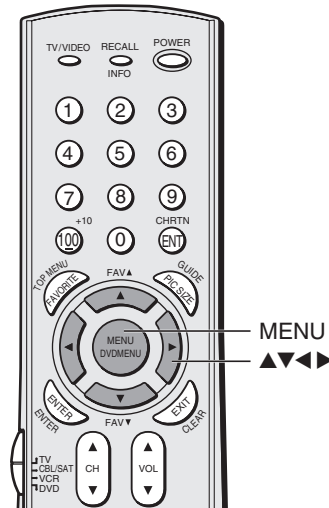
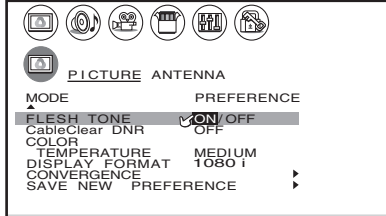


## Using the flesh tone feature

This feature displays natural flesh tones by correcting the tint.

To turn on the flesh tone feature:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight FLESH TONE.
3. Press ◀ or ▶ to highlight ON.

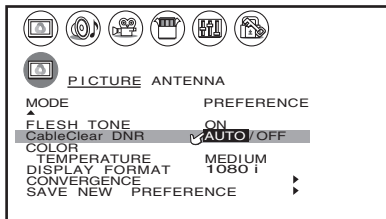


## Using the CableClear™ DNR feature

This feature allows you to reduce visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing back a video cassette or disc damaged by repeated use.

To turn on CableClear DNR:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight CableClear DNR.
3. Press ◀ or ▶ to highlight AUTO.



To turn off CableClear DNR:

Highlight OFF in step 3 above.

### Note:

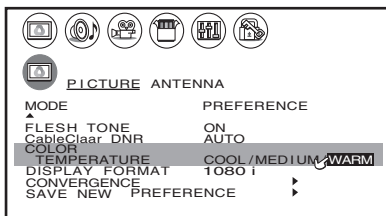
The Cable Clear DNR feature is not available in DVI mode (will be set to OFF).

## Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

To select the color temperature:

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



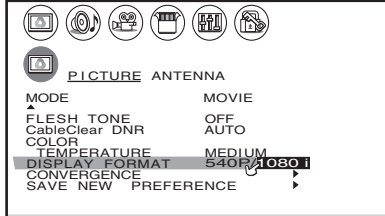
Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish

## Selecting the display format (for 480p signals only)

Use this feature to convert a 480p input signal to 540p or 1080i.

To select the display format:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight DISPLAY FORMAT.
3. Press ◀ or ▶ to select 540p or 1080i as you desire.



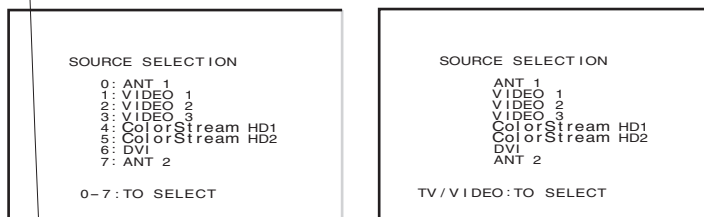
## Resetting your picture adjustments

The RESET function adjusts the picture qualities to the following factory settings:



## Selecting the video input source

Press TV/VIDEO on the remote control or TV to view a signal from another device connected to your TV, such as a VCR or video disc player (see illustrations below). You can select ANT 1, VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2, DVI, or ANT 2 depending on which input jacks are used for connecting the devices (see “Connecting your TV” on page 8).



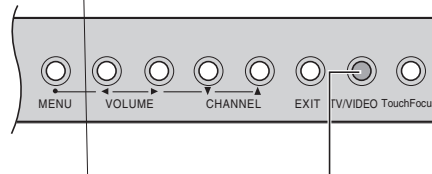
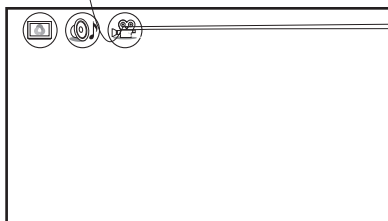
## Labeling the video input sources

The video label feature allows you to label each input source for your TV from the following preset list of labels:

- : Uses the default label name
- VCR : Video cassette recorder
- DVD : DVD video
- DTV : Digital TV set-top box
- SAT : Satellite box
- CBL : Cable box
- HD : DVI/HDCP device (see page 14.)

To label the video input sources:

1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight VIDEO LABEL.



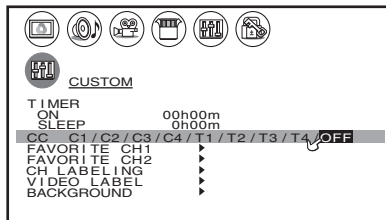
## Using the closed caption feature

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 view captions or text:

1. Tune the TV to the desired program.
2. Press MENU, and then press ◀ or ▶ to display CUSTOM menu.
3. Press ▲ or ▼ to highlight CC.



4. Press ◀ or ▶ to highlight the desired closed caption mode, as follows:

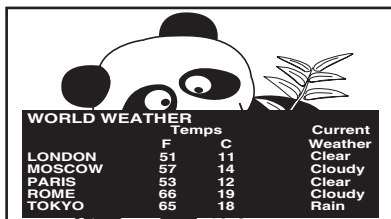
- To view captions, highlight C1, C2, C3, or C4 (C1 displays translation of the primary language in your area).

**Note:** If the program or video you selected is not closed captioned, no captions will display on the screen.

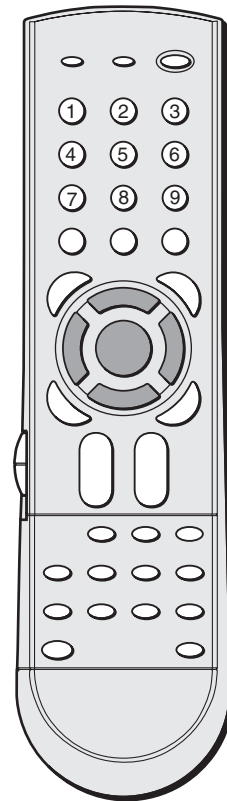


- To view text, highlight T1, T2, T3, or T4.

**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.



To turn off the Closed Caption feature:  
Highlight OFF in step 4.

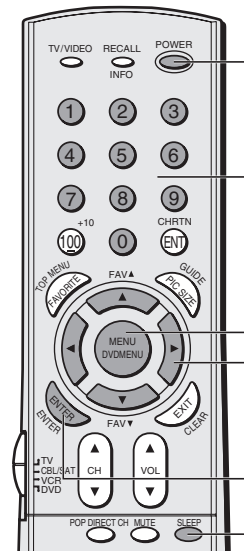




## Setting the ON timer

To set the ON timer to turn on the TV automatically:

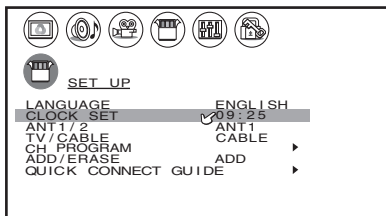
1. Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
2. Press ▲ or ▼ to highlight ON.
3. After the number position starts to blink, press the Number buttons (0-9) to enter the length of time until the TV turns on automatically.  
You can set the ON timer in 10-minute increments, up to 12h00m.
4. Press ENTER to start the timer.



## Setting the clock

To set the clock:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ to highlight CLOCK SET.
3. After the number position starts to blink, press the Number buttons (0-9) to enter the correct time. The clock operates on a 24-hour cycle.
4. Press ENTER to start the clock.

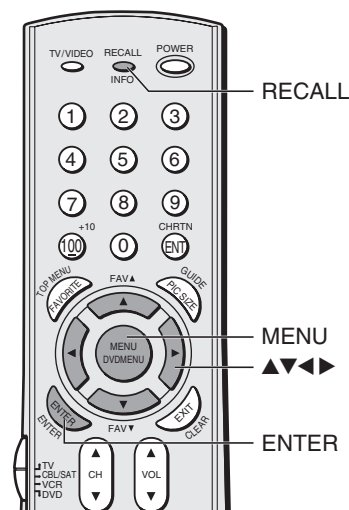


To display the time on-screen:

Press RECALL.

### **Note :**

*If the TV's power source is interrupted (the power cord is unplugged or a power failure occurs), the clock must be reset.*



## Adjusting the sound

### Muting the sound

Press MUTE to temporarily reduce (1/2 MUTE) or turn off (MUTE) the sound. While the sound is off, the screen will display “1/2 MUTE” or “MUTE” in the lower right corner. Every time you press the button, the mute mode will change in the following order.

→ Normal → 1/2 MUTE → MUTE →

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 OFF. See “Using the closed caption feature” on page 48 for more information.

### Selecting stereo/SAP broadcasts

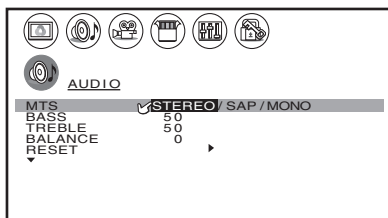
The multi-channel TV sound (MTS) feature allows you to listen to high-fidelity stereo sound while watching TV. MTS can also transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word STEREO or SAP appears on-screen every time the TV is turned on, the channel is changed, or the RECALL button is pressed.

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

To listen to stereo sound:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight MTS.
3. Press ◀ or ▶ to highlight STEREO.

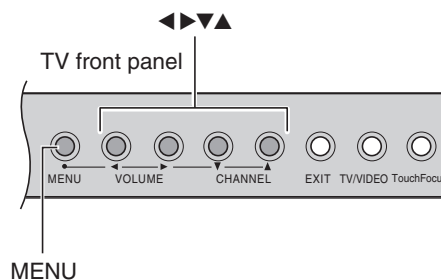
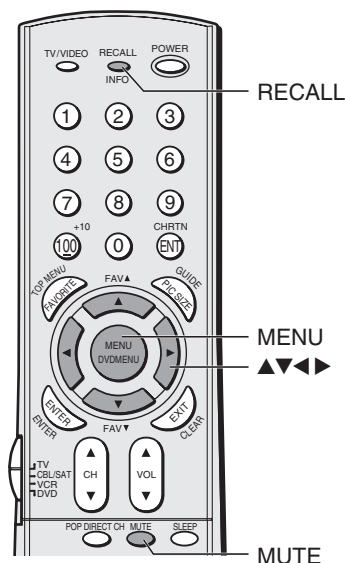


You can leave your TV in STEREO mode because it will automatically output the type of sound being broadcast (stereo or monaural). The word “STEREO” or “SAP” displays in yellow in the menu when the TV receives the signal.

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

To listen to SAP (if available):

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight MTS.
3. Press ◀ or ▶ to highlight SAP. You will hear the station's second audio program (if available) from the speakers, while viewing the original program's picture (see note at right).



#### Note :

A second audio program (SAP) can be heard only on those TV stations that offer it.

For example, a station might broadcast music as a second audio program. If you have SAP on, you will see the current program on the screen but hear music instead of the program's normal audio.

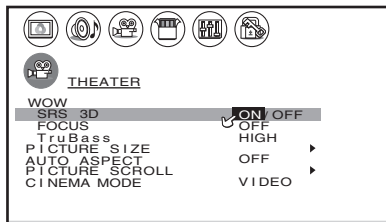
However, if you have SAP on, and the station you are watching is not currently broadcasting a second audio program, the station's normal audio will be output; however, occasionally there is no sound at all in this instance. If this happens, set the MTS feature to STEREO mode.

## Using the WOW™ surround sound feature

WOW is the latest audio enhancement technology combined with SRS 3D and TruBass of SRS Labs individual technologies. The feature uses stereo signals from a TV broadcast or video input.

To adjust the WOW feature:

1. Select STEREO mode (See “Selecting stereo/SAP broadcasts” on page 52).
2. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
3. Press ▲ or ▼ to highlight the desired WOW feature you want to adjust, then press ◀ or ▶ to adjust the item.



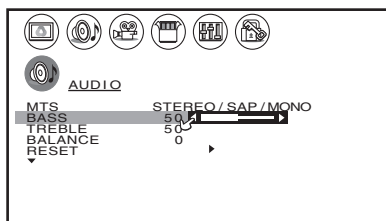
- SRS 3D — To turn on or off the surround sound effect.
- FOCUS — To turn on or off the vocal emphasis effect.
- TruBass — To select your desired bass expansion level (HIGH, LOW or OFF).

## 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:

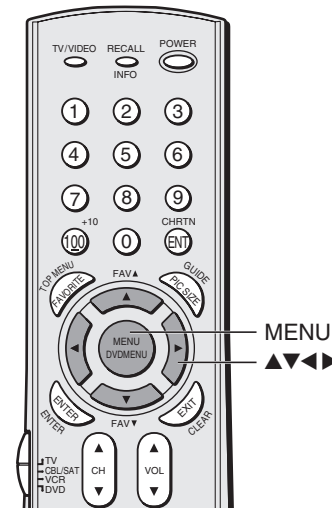
1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight the item you want to adjust.



3. Press ◀ or ▶ to adjust the level.
  - ◀ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
  - ▶ makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.

### Note:

If the broadcast is monaural, the SRS 3D effect does not work.



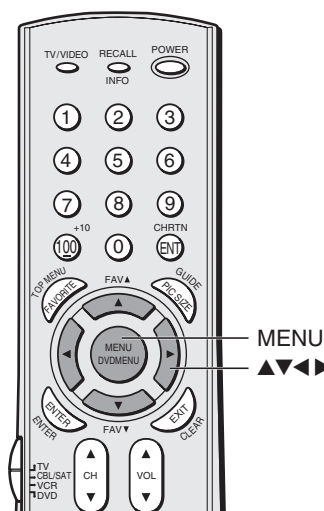
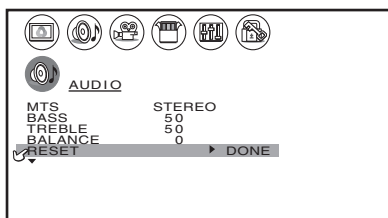
## Resetting your audio adjustments

The RESET function returns the audio adjustments to the following factory settings:

- Bass ..... center (50)
- Treble ..... center (50)
- Balance ..... center (0)

To reset the audio adjustments:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight RESET.
3. Press ◀ or ▶. The menu displays “DONE”.

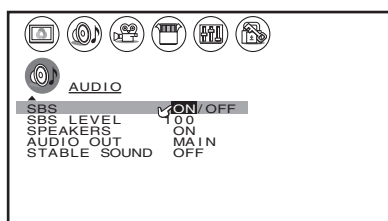


## Using the sub-bass system (SBS)

The sub-bass system allows you to enhance bass performance, even when the sound volume is low.

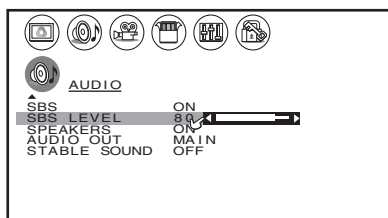
To turn on the SBS:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight SBS.
3. Press ◀ or ▶ to highlight ON.



To adjust the SBS level:

4. Press ▲ or ▼ to highlight SBS LEVEL.
5. Press ◀ or ▶ to adjust the SBS level.



To turn off the SBS:

Highlight OFF in step 3 above.

### Note:

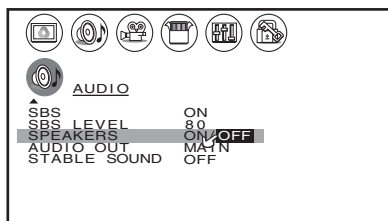
While in the SBS OFF mode, if the SBS level is adjusted, the SBS is automatically set ON.

## Turning off the built-in speakers

Use this feature to turn the TV speakers off when you connect an audio system (See “Connecting an audio system” on page 15).

To turn off the built-in speakers:

1. Press MENU, then press ◀ or ▶ until AUDIO menu appears.
2. Press ▲ or ▼ to highlight SPEAKERS.
3. Press ◀ or ▶ to highlight OFF.



To turn on the built-in speakers:

Highlight ON in step 3 above.

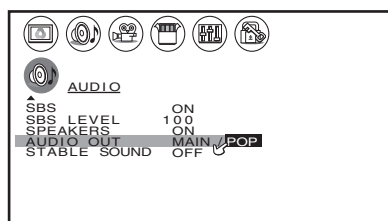
## Selecting the Audio OUT sound

This feature allows you to select the sound source (MAIN or POP) that is output from the Audio OUT jacks (See “Connecting two VCRs” on page 13).

This is useful when amplifying or recording the POP sound with external equipment while hearing the sound of the main picture through the built-in speakers.

To select the Audio OUT sound:

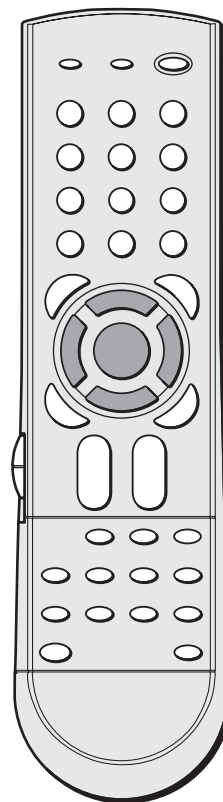
1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight AUDIO OUT.
3. Press ◀ or ▶ to select MAIN or POP.

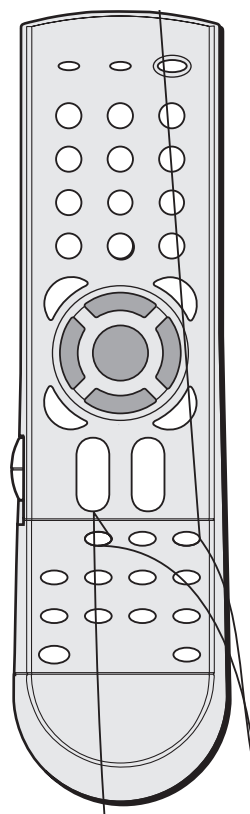


- MAIN: Outputs the sound of the main program to the AUDIO OUT jacks.
- POP: Outputs the sound of the POP program to the AUDIO OUT jacks.

### Note:

Make sure the volume control of your audio amplifier is set to a moderate listening level.







## Viewing the demo mode

The demo mode automatically demonstrates several of your TV's features. This function is provided for demonstration purposes only.

To start the demo:

Press and hold MENU on the TV front panel for 4 seconds.

To stop the demo:

Press RECALL, EXIT, or POWER.

## Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature does not work in VIDEO mode.

## Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature turns the TV on automatically when the power is resupplied.

If the power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.

# Appendix

## Specifications

### 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

120 V AC, 60 Hz

### Power Consumption

190 W (average)

### Audio Power

20 W + 20 W

### Speaker Type

46H83: Two 4-3/4 inches (12 cm) round

51H83: Two 6-5/16 inches (16 cm) round

57H83: Two 6-5/16 inches (16 cm) round

65H83: Two 6-5/16 inches (16 cm) round

### Video/Audio Terminals

#### S-VIDEO INPUT

Y : 1 V(p-p), 75 ohm, negative sync.

C : 0.286 V(p-p) (burst signal), 75 ohm

#### VIDEO/AUDIO INPUT

VIDEO: 1 V(p-p), 75 ohm, negative sync.

AUDIO: 150 mV(rms) (30% modulation equivalent, 47 k ohm)

#### ColorStream® (component video) INPUT

Y : 1V(p-p), 75 ohm

PR: 0.7 V(p-p), 75 ohm

PB: 0.7 V(p-p), 75 ohm

AUDIO: 150 mV(rms), 47 k ohm

#### VIDEO/AUDIO OUTPUT

VIDEO: 1 V(p-p), 75 ohm, negative sync.

AUDIO: 150 mV(rms) (30% modulation equivalent, 4.7 k ohm)

#### VARIABLE AUDIO OUTPUT

0–300 mV(rms) (30% modulation equivalent, 4.7 k ohm)

#### AUDIO CENTER CHANNEL INPUT

300 mV(rms) (30% modulation equivalent, 10 k ohm)

#### DVI/HDCP INPUT

HDCP compliant

E-EDID\* 1.3 compliant

DVI-D uncompressed, high-speed, digital single-link connection

Suggested scan rates: 1080i, 480p, 480i

### Dimensions

46H83:	Width	43-3/8 inches (1102 mm)
	Height	40 inches (1029 mm)
	Depth	21-7/8 inches (556 mm)
51H83:	Width	47-9/16 inches (1208 mm)
	Height	50 inches (1283 mm)
	Depth	22 inches (572 mm)
57H83:	Width	52-3/4 inches (1340 mm)
	Height	55 inches (1416 mm)
	Depth	23-7/8 inches (606 mm)
65H83:	Width	59-7/8 inches (1521 mm)
	Height	59-7/8 inches (1521 mm)
	Depth	26 inches (668 mm)

### Mass

46H83:	150 lbs (68.0 kg)
51H83:	169 lbs (76.6 kg)
57H83:	204 lbs (92.5 kg)
65H83:	240 lbs (108.8 kg)

### Supplied Accessories

Remote Control with 2 size “AA” alkaline batteries

### Optional TV Stand

46H83: ST4663

Design and specifications are subject to change without notice.

\* E-EDID = Enhanced-Extended Display Identification

## Troubleshooting

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

Problem	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 VOLUME.</li><li>• The station may have broadcast difficulties. Try another channel.</li><li>• Check that the SPEAKERS function in AUDIO menu is set properly.</li><li>• Check that the AUDIO CENTER CHANNEL switch 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><li>• If you are using a VCR, make sure the TV/VCR button is set correctly.</li></ul>
Cannot receive above channel 13	<ul style="list-style-type: none"><li>• Make sure the TV/CABLE switch is set to the mode that corresponds with the signal source type (cable company or outside antenna).</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 (T1, T2, T3, or T4). Turn closed captioning OFF.</li></ul>
Unable to select a certain channel	<ul style="list-style-type: none"><li>• The channel may be locked out with the CH LOCK feature, or erased with the ADD/ERASE 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 front panel buttons do not operate	<ul style="list-style-type: none"><li>• Check the FRONT PANEL LOCK feature.</li></ul>
The remote control does not operate	<ul style="list-style-type: none"><li>• Check whether the appropriate device mode is selected.</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>
Cannot access signal input sources (Video1, Video2, Video3, ColorStream HD1/HD2, DVI/HDCP) and/or Channels 3 and 4.	<ul style="list-style-type: none"><li>• Check the VIDEO LOCK feature.</li></ul>

# Limited United States Warranty

## for 27" FST PURE® and All Larger Television Models

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii, Inc. ("THI") make the following limited warranties to original consumers in the United States. **THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.**

**PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.**

**PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.**

### Limited One (1) Year Warranty on Parts and Labor\*

TACP/THI warrant this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. **DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR.** TACP/THI Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TACP/THI Authorized Service Station for repair and returned to your home at no cost to you.

### Limited Two (2) Year Warranty on Picture Tube\*

TACP/THI further warrant the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. **DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.**

### Rental Units

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

### \*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

### Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this television. Complete and mail the enclosed product registration card within ten days after you, or the person who has given you this product as a gift, purchased this television. Returning the product registration card will enable TACP/THI to provide you with better customer service and improved product support. Failure to return the product registration card will not affect your rights under this warranty.

### Your Responsibility

**THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:**

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be made by an Authorized TACP/THI Service Station.
- (3) The warranties from TACP and THI are effective only if the television is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna

systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP/THI; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TACP/THI Authorized Service Station:  
For televisions purchased in the United States, except Hawaii, visit TACP's web site at [www.toshiba.com/tacp](http://www.toshiba.com/tacp), or call toll free 1-800-631-3811.  
For televisions purchased in Hawaii, contact Toshiba Hawaii, Inc., 327 Kamakee Street, Honolulu, HI 96814, (808) 591-9281.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Station. Authorized TACP/THI Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Station for repair and returned to your home at no cost to you.

**For additional information, visit TACP's web site:  
[www.toshiba.com/tacp](http://www.toshiba.com/tacp).**

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REV. MAR02

# Limited Canada Warranty

## for 27" FST PURE® and All Larger Television Models

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

### Limited One (1) Year Warranty on Parts and Labor\*

TCL warrants this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TCL Authorized Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TCL Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

### Limited Two (2) Year Warranty on Picture Tube\*

TCL further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

### Rental Units

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

### \*Commercial Units

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

### Owner's Manual

Read this owner's manual thoroughly before operating this television.

### Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be made by an Authorized TCL Service Depot.
- (3) The warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TCL Authorized Service Depot, visit TCL's web site: **[www.toshiba.ca](http://www.toshiba.ca)**.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot. Authorized TCL Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Depot for repair and returned to your home at no cost to you. **IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.**

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