



# TOSHIBA

# OWNER'S MANUAL

## LCOS Projection Television

**16:9 WIDE** COLORSTREAM®

VIRTUAL DOLBY DIGITAL

TruSurround™ DIGITAL 5.1CH by SRS(®)

WOW™ by SRS(®)

Introduction

Connecting your TV

Using the Remote Control

Setting up your TV

Using the TV's Features

Appendix

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### NOTE

Please read "Important notes about your LCOS projection TV" on page 5.



### Owner's Record

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

Model number:

Serial number:

# 57HLX82

## 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.**



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock.



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

## Lamp Unit Replacement



**CAUTION: HOT SURFACE!**  
The temperature of the lamp immediately after use exceeds 392°F (200°C).



Touching the lamp at this temperature will result in injury. **ALLOW THE LAMP TO COOL FOR AT LEAST ONE (1) HOUR BEFORE REPLACING IT.**

The lamp in this product has a limited service life. The length of service life varies depending on user settings. If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture, at which time you should replace the lamp unit; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture. If the lamp ruptures, the TV will not operate until the lamp unit is replaced.

**Note:** The lamp unit is designed so broken lamp glass remains securely inside the lamp unit.

See "Lamp unit replacement" on pages 59–62.

**Note:** The lamp unit contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronics Industries Alliance ([www.eiae.org](http://www.eiae.org)).



**WARNING**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL.**

## 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 26 and 27 on page 4.

2 09/02 LCOS

## 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 Americans, 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!



2500 Wilson Blvd.  
Arlington, VA 22201 U.S.A.  
Tel. 703-907-7600 Fax 703-907-7690  
[www.CE.org](http://www.CE.org)

CEA is the Sponsor, Producer and  
Manager of the International CES®



## Important Safety Instructions

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



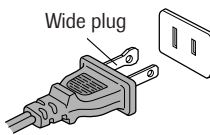
5) **Do not use this apparatus near water.**

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

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

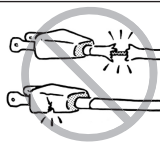
8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

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.



**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.

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) **CAUTION: When moving this unit, push from the sides.** This unit has casters. Attempting to push the unit from the front or rear may cause the unit to tip over.

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

15) **Refer all servicing (except as specified on pages 59–64 in this manual) to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as the 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.

16) **WARNING: This product contains a lamp to project the picture, and requires special safety precautions:**

- See pages 59–64 for instructions on lamp unit replacement and air filter care.
- **DO NOT attempt to service this product except as specified on pages 59–64.** The only user-serviceable items in this product are the lamp unit and air filter.

## Installation, Care, and Service

### Installation

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

17) 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.

18) **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.



19) 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).

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

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

22) 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.

23) 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.

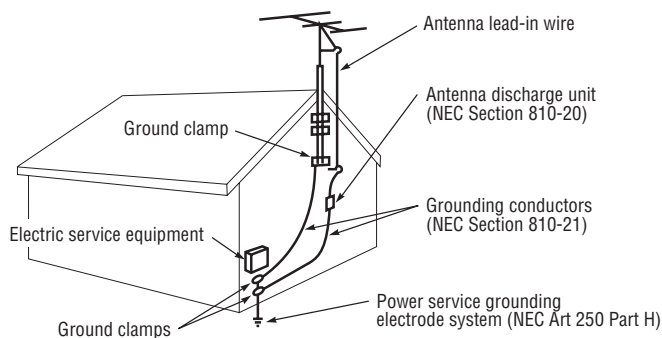
24) Never overload wall outlets and extension cords.

25) Always operate this equipment from a 120 VAC, 60 Hz power source only.

*(continued on next page)*

## Installation (cont. from previous page)

- 26) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



27) **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

## Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

- 28) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn off the TV to check for reflections on the screen, and then remove the source of reflections while viewing the TV.

- 29) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.

30) **WARNING: RISK OF ELECTRIC SHOCK!**

Never spill liquids or push objects of any kind into the TV cabinet slots.

- 31) If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.

## Care (cont. from previous column)

- 32) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

- 33) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

34) **Special care for LCD (liquid crystal display) units:**

- **Lamp**—The lamp in this product has a limited service life. The length of service life varies depending on user settings. If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture, at which time you should replace the lamp unit; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture. If the lamp ruptures, the TV will not operate until the lamp unit is replaced.

See “Lamp unit replacement” on pages 59–62.

**Note:**

- The lamp unit is designed so broken lamp glass remains securely inside the lamp unit.
- The lamp unit contains mercury, the disposal of which may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance ([www.eiae.org](http://www.eiae.org)).

- **Air Filter**—This product contains an air filter that you must clean a minimum of every two months. See “Air filter care” on pages 63–64 for specific instructions.

## Service

- 35) **WARNING: RISK OF ELECTRIC SHOCK!** Never attempt to service the TV yourself, except as specified on pages 59–64.

Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury.

Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.

- 36) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

- 37) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.


**Note:** The lamp unit contains mercury, the disposal of which may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance ([www.eiae.org](http://www.eiae.org)).





## Important notes about your LCOS projection TV

- 1) A spare lamp unit is included with this TV, and is stored in the foam packing material on one side of the TV. Be sure to retrieve the spare lamp unit before discarding the foam packing material.
- 2) The light source for this TV is a projection lamp unit with a limited service life. When the lamp wears out, the picture may become dark or black, or the lamp may fail, at which time you must replace the lamp unit. See "Lamp unit replacement" on pages 59–62.
- 3) It may take up to 45 seconds to go from no picture to full picture brightness each time you turn on the TV.
- 4) The image on this TV is created using LCOS (liquid crystal on silicon) technology that is **not** susceptible to screen "burn-in" from static images; therefore, this TV is ideal for viewing programs with static video patterns, such as video games or personal computer software. For details on connecting your TV to a computer, see page 18.  
*Note: Interactive video games that involve shooting a "gun" type of joystick at on-screen targets may not work on this TV.*
- 5) The liquid crystal display on this TV is manufactured using an extremely high level of precision technology; however, an occasional pixel (dot of light) may display constantly on the screen. This is a structural property of LCOS technology and

- is not a sign of malfunction. Such pixels are not visible when the picture is viewed from a normal viewing distance (see item 28 on page 4).
- 6) The green and red LED lights on the control touchpad (on the lower right corner of the TV screen) indicate your TV's current status. If either light flashes, see "LED indications" on page 64 for details.
  - 7) A 720p signal will not display in its native format on this TV, but will be upconverted to a 1080p signal.
  - 8) This TV contains several cooling fans to moderate the internal temperature. The air intake for these fans is through an air filter that you must clean a minimum of every two (2) months. To maintain maximum cooling efficiency of the fans, clean the air filter regularly and never place the back of the TV where the air filter will be blocked (against a curtain, for example). See "Air filter care" on pages 63–64.
  - 9)  The screen on this TV is manufactured from tempered glass. To prevent damage, never strike the glass with a sharp or heavy object.
  - 10) Review all safety and operating information in this owner's manual before you use your TV.

## FCC compliance information

### Federal Communications Commission (FCC)

This equipment complies with Part 15 of the FCC rules.

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

The Toshiba 57HLX82 LCOS Projection Television complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

The party responsible for compliance to these rules is:

Toshiba America Consumer Products, Inc.  
82 Totowa Rd.  
Wayne, NJ 07470  
Ph: (888) 867-4377

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses,

and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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



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# Introduction

## Welcome to Toshiba

Congratulations! You have purchased one of the finest LCOS (liquid crystal on silicon) 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 is for model 57HLX82. The model and serial numbers are on the back of your TV. Write these numbers in the space provided on the front cover of this manual for your records.

Instructions in this manual are based on using the remote control. You also can use the controls on the TV touchpad if they have the same name as those referred to on the remote control. Please read all safety and operating instructions carefully, and keep this manual for future reference.

## Exploring your new TV

You can operate your TV using the control touchpad on the TV front or the remote control. The A/V terminals for connecting other equipment to your TV are on the back panel and inside the storage compartment (see illustrations below). Also see "Connecting your TV" on pages 8-18.

See "Important notes about your LCOS projection TV" on page 5.

## 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 the initial setup of your TV. To stop the **Quick Connect Guide**, either press EXIT or turn off the TV. See page 28 for details.

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Connecting your TV

Using the Remote Control

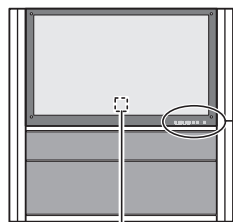
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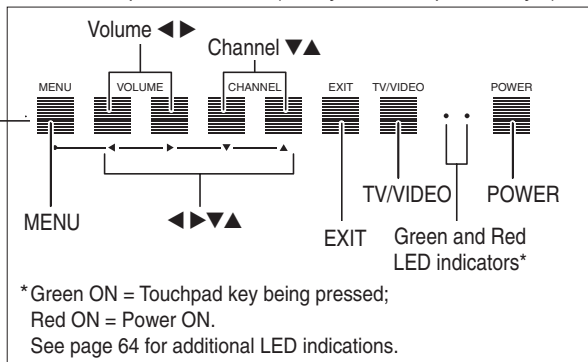
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TV front



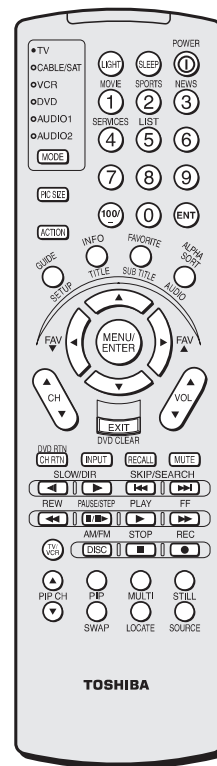
Remote control sensor (behind the screen)

Control touchpad on TV front (Gently touch the printed keys.)

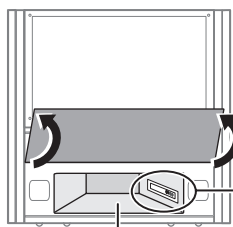


\* Green ON = Touchpad key being pressed; Red ON = Power ON. See page 64 for additional LED indications.

Remote control

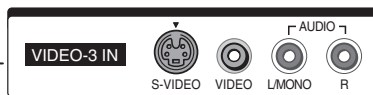


TV front with storage door open (Lift bottom of door to open.)

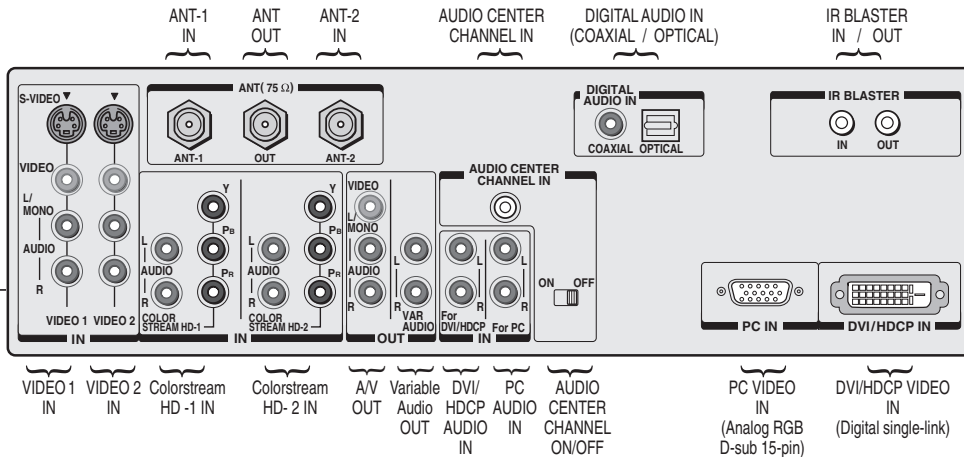
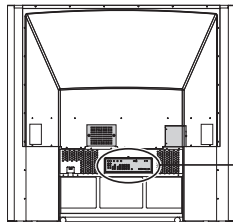


Storage compartment for A/V equipment

VIDEO-3 A/V terminals (inside storage compartment)



TV back



## Connecting your TV

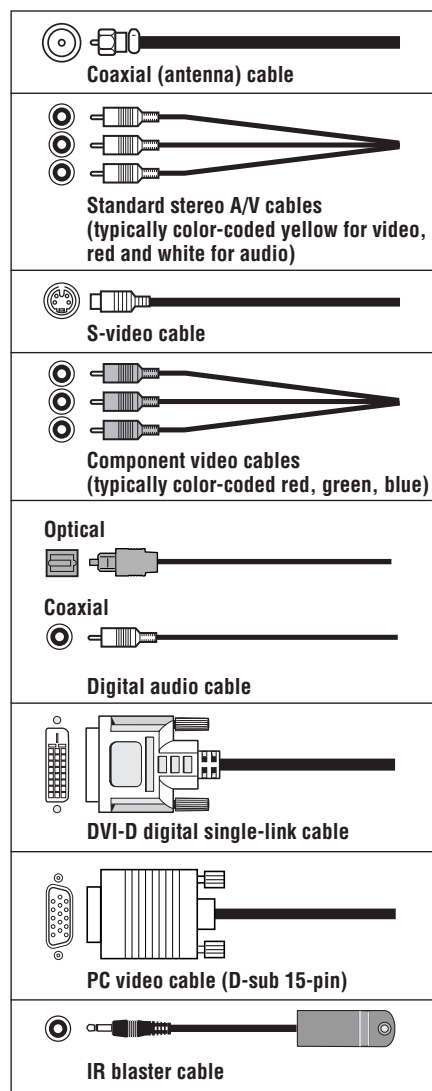
**Note:** One IR blaster cable is provided with your TV. No other cables are provided.

- **Coaxial cable** is the type of cable connected to your antenna, cable TV service, or cable converter box. Coaxial cable has "F" connectors.
- **Standard stereo A/V 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. Your TV's 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 connector.
- **Component video cables** come in sets of three (typically color-coded red, green, and blue), and are for use with video equipment that has component video connectors. Your TV's ColorStream® (component video) inputs are color-coded in the same manner as the cables.
- **Digital audio cable** is for use with video equipment that has digital audio output (e.g., a DVD player or game console). You can use either optical or coaxial digital audio input (see pages 14, 53, and 57).
- **DVI-D digital single-link cable** is for use with video equipment that has a DVI-D digital single-link connector (see page 15).
- **PC video cable (D-sub 15-pin)** is for use with a computer that has a D-sub 15-pin connector (see page 18).
- **IR blaster cable** is used to remotely control other A/V equipment (equipped with an infrared sensor) through the TV (see page 16).

### NOTE REGARDING PICTURE QUALITY

When connecting video equipment to your Toshiba TV:

- **For GOOD picture quality:** Use a **standard stereo A/V (yellow) video** cable.
- **For BETTER picture quality:** If your equipment has an **S-video** connector, 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 a 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** connectors, use component video cables *instead of* a standard yellow video cable or an S-video cable (plus the standard red and white audio cables for full system connection.) If your equipment has a **DVI-D digital single-link connector**, use a DVI-D cable (plus standard red and white audio cables connected to the audio terminals labeled "For DVI/HDCP IN" for full system connection).



### CAUTION:

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



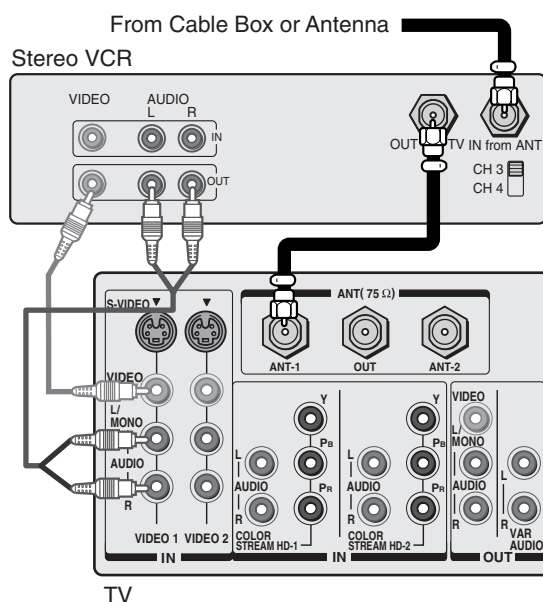


## Connecting a VCR

This connection allows you to watch local channels and video programs, watch video tapes, and record one channel while watching another channel.

You will need:

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



### Note:

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

If you have an S-VHS VCR, use an S-video cable 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.

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.

Introduction

Connecting your TV

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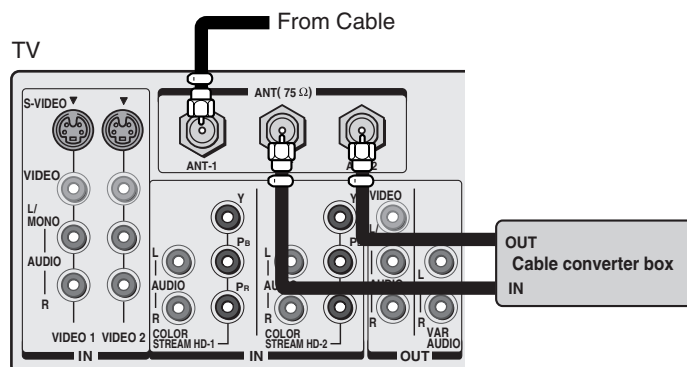
## Connecting a cable converter box

This connection allows you to watch basic and premium cable channels.

To use the TV's features, select ANT-1. To view premium channels, 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.

You will need:

- three coaxial cables



### Note:

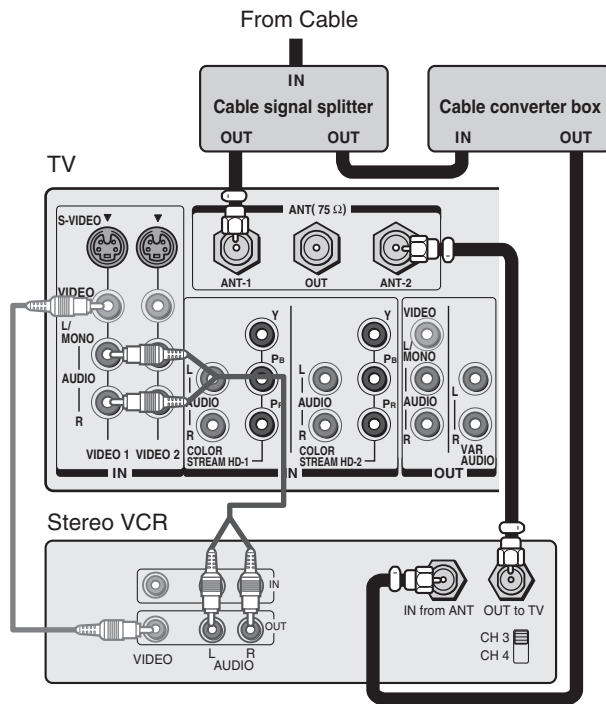
When you use a converter box with your TV, the remote control will not operate some features, such as programming your favorite channels, labeling channels, and locking channels.

## Connecting a cable converter box and VCR

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

You will need:

- one cable signal splitter
- five coaxial cables
- one set of standard A/V cables



**Note:**

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

*If you have an S-VHS VCR, use an S-video cable instead of a 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.*

*When you use a converter box with your TV, the remote control will not operate some features, such as programming your favorite channels, labeling channels, and locking channels.*

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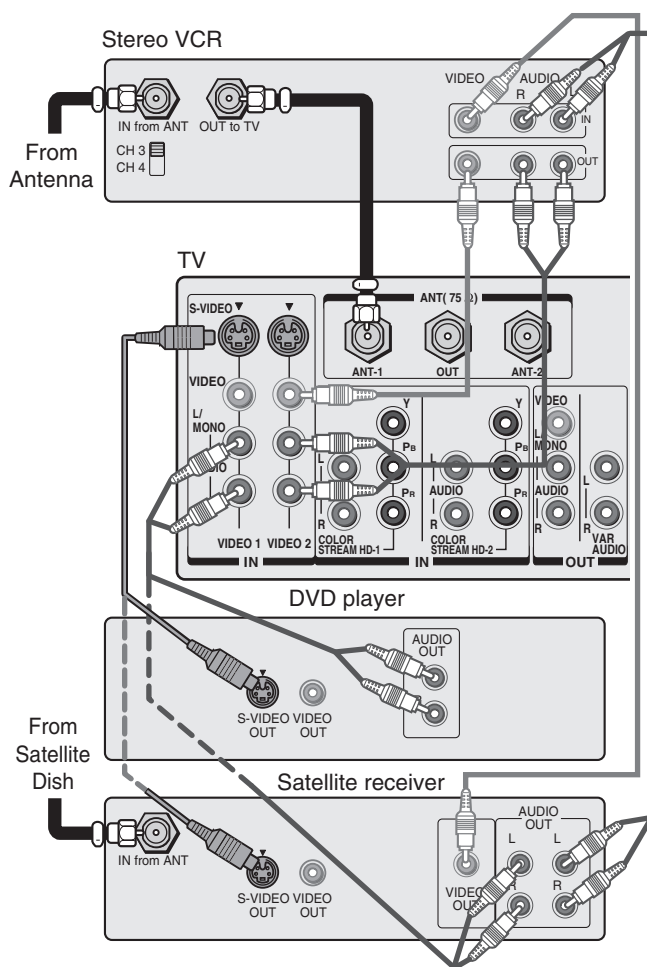


## Connecting a DVD player or satellite receiver and a VCR

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

You will need:

- two (or three, if satellite receiver is used) coaxial cables
- one set of standard A/V cables (between the TV and VCR) (plus one additional set of standard A/V cables if satellite receiver is used)
- one S-video cable (between the TV and DVD player/satellite receiver)
- one pair of standard audio cables (between the TV and DVD player/satellite receiver) (or one digital audio cable, if applicable; see pages 14, 53, and 57 for details on digital audio connection)



### Note:

For the highest possible picture quality from a DVD player/satellite receiver without component video or DVI/HDCP, use an S-video cable between the TV and DVD player/satellite receiver. (If your DVD player/satellite receiver is compatible with component video, see page 12. If your DVD player/satellite receiver is compatible with DVI/HDCP, see page 15).

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.)

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## 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. You can record one channel while watching another channel.

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

You will need:

- two coaxial cables
- one set of standard A/V cables
- one set of component video cables
- one pair of standard audio cables (or one digital audio cable, if applicable; see pages 14, 53, and 57 for details on digital audio connection)

### 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.

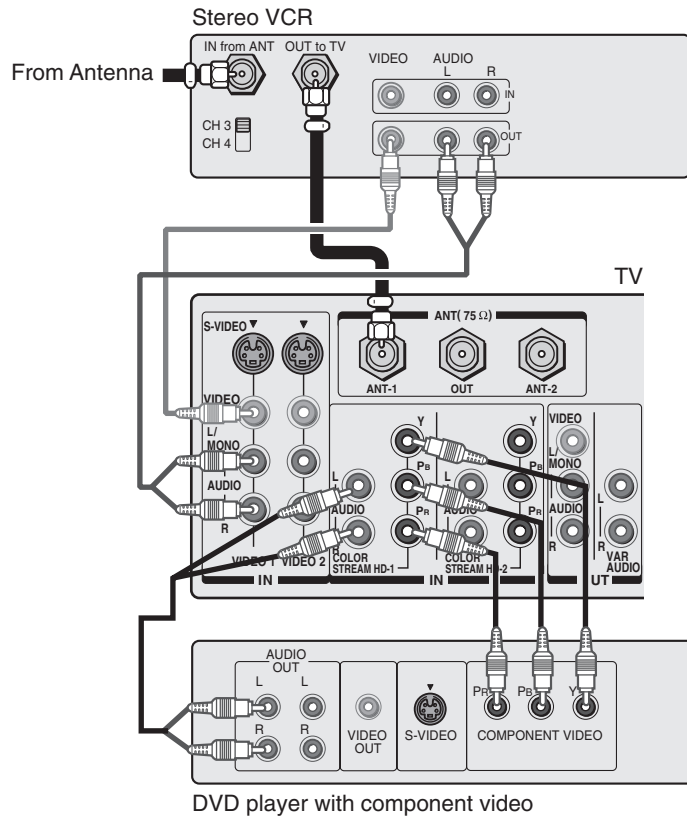
You can connect component video cables from the DVD player to either set of ColorStream terminals on the TV (HD1 or HD2).

The ColorStream HD1 and HD2 terminals can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems.

If your DVD player is not compatible with component video (or DVI/HDCP), use an S-video cable (plus an audio connection) instead.

Do not connect both S-Video and standard video cables between the TV and DVD player at the same time, or the picture performance will be unacceptable.

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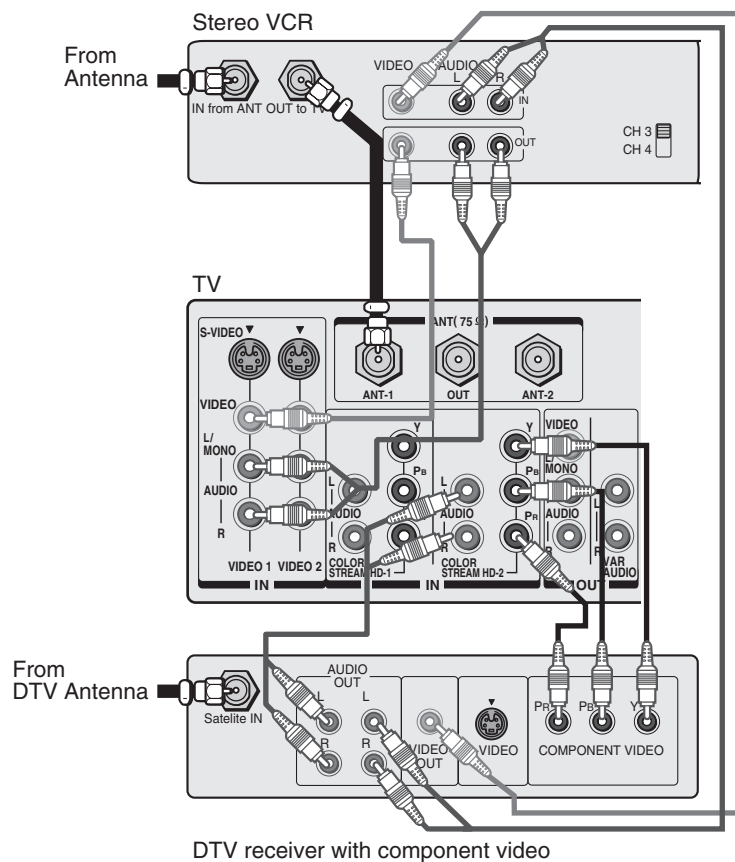
## Connecting a DTV receiver/set-top box with ColorStream® (component video) and a VCR

This connection allows you to watch DTV (digital TV broadcast), VCR, and TV programs, and record DTV and TV programs. You can record from one source while watching a program from another source.

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

You will need:

- three coaxial cables
- two sets of standard A/V cables
- one set of component video cables
- one pair of standard audio cables (or one digital audio cable, if applicable; see pages 14, 53, and 57 for details on digital audio connection)



### Note:

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

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

The ColorStream HD1 and HD2 terminals can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems.

If your DTV receiver is not compatible with component video (or DVI/HDCP), use an S-video cable (plus an audio connection) instead.

Do not connect both S-Video and standard video cables between the TV and DTV receiver at the same time, or the picture performance will be unacceptable.

To record from the DTV receiver, set the VCR to Line IN. To monitor recording from the DTV receiver, set the VCR to Line IN and the TV to VIDEO 1.

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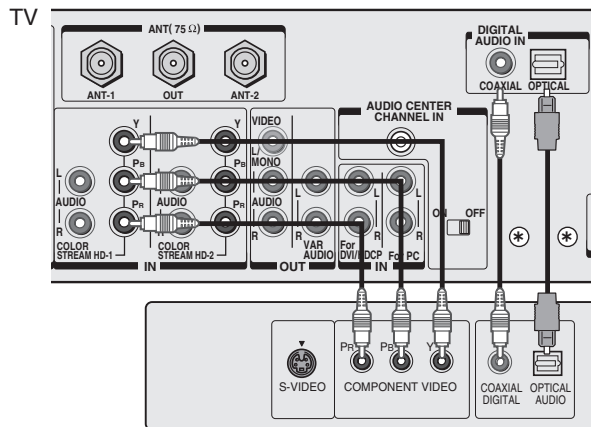
## Connecting a DVD player or DTV receiver/ set-top box with digital audio (coaxial or optical)

This connection allows you to hear Dolby® Virtual TruSurround sound (virtual 5.1-channel surround sound) from the TV speakers (also see page 53). You can connect a DVD player or DTV receiver/ set-top box with digital audio output to either the coaxial or optical DIGITAL AUDIO IN terminal on the TV.

You can use any video input except ANT-1 and ANT-2 in conjunction with either digital audio input. See “Assigning the corresponding video input for the optical and coaxial DIGITAL AUDIO IN terminals” on page 57.

You will need:

- one set of component video cables (in this example)
- one digital audio cable (coaxial or optical)



DVD player or DTV receiver with digital audio output

**Note:**

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

The ColorStream HD1/HD2 (or DVI/HDCP) terminals can be used with progressive (480p, 720p) and interlaced (480i, 1080i) scan systems.

If your DVD player or DTV receiver is not compatible with component video (or DVI/HDCP), use an S-video cable (plus an audio connection) instead.

Dolby is a registered trademark of Dolby Laboratories. Manufactured under license from Dolby Laboratories.

TruSurround is a trademark of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

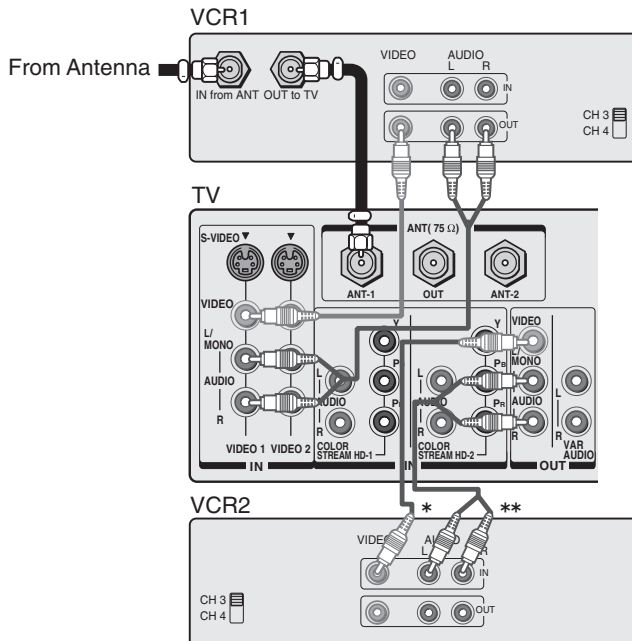
- \* You can use either coaxial or optical digital audio input. You do not need to use both. Do not crimp an optical cable or bend it to an extreme angle or it will not function properly.

## Connecting two VCRs

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

You will need:

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



**Note:**

If you have S-VHS VCRs, use S-video cables instead of standard video cables. Do not connect both 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.

Do not connect the same VCR to the output and input jacks on the TV at the same time.

To dub or edit, VCR 2 must select Line IN, and the TV must select VIDEO 1.

\* The Video OUT jack does not output the POP picture.

\*\* The Audio OUT jacks can output the sound of either the Main or POP picture (see “Selecting the Audio OUT sound” on page 56).

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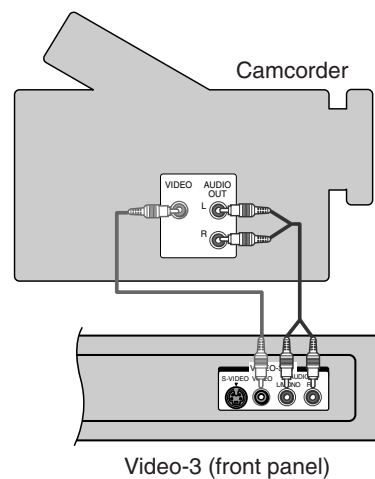
## Connecting a camcorder

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

You will need:

- one set of standard A/V cables

**Note:** If you have an S-VHS camcorder, use an S-video cable instead of a standard video cable. Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.



## Connecting a device to the DVI/HDCP IN terminal

Your TV's DVI/HDCP\* IN terminal is designed to accept HDCP program material in digital form from EIA/CEA-861-compliant\*\* consumer electronic devices, such as a set-top box or DVD player equipped with a DVI-D digital single-link OUT terminal.†

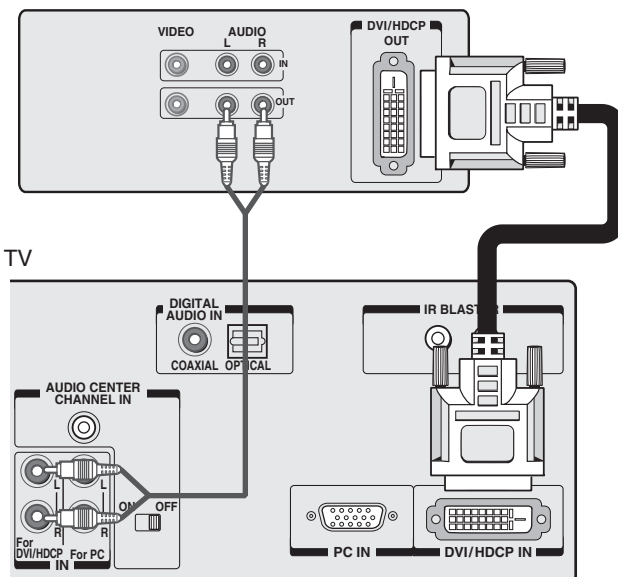
The DVI/HDCP IN terminal is designed for best performance with 1080i high-definition video signals, but also will accept and display 480p, 720p, and 480i picture signals.

The DVI/HDCP IN terminal is **not** intended for connection to and should **not** be used with a PC (personal computer). For PC connection, see "Connecting a computer" on page 18.

You will need:

- 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 (or one digital audio cable, if applicable; see pages 14, 53, and 57 for details on digital audio connection)

DVI/HDCP device  
(for example, set-top box or DVD player)



\* DVI/HDCP = Digital Visual Interface/ High-bandwidth Digital Content Protection.

\*\* 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.

† Consult your consumer electronics dealer for availability.

### Note:

- **Make sure the DVI cable is fastened securely to the TV and DVI device.** If the cable is not fastened securely on both ends, the TV may suffer from picture noise ("snow") or have no picture at all.
- To ensure that the DVI/HDCP device is reset properly, it is recommended that you follow these procedures:
  - a) When turning on your electronic devices, **turn on the TV first**, and then the DVI/HDCP device.
  - b) When turning off your electronic devices, **turn off the DVI/HDCP device first**, and then the TV.

## Connecting a device to the IR blaster

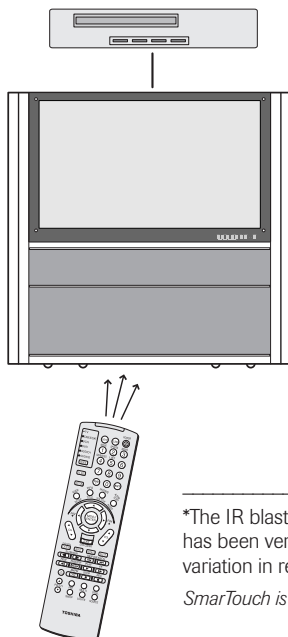
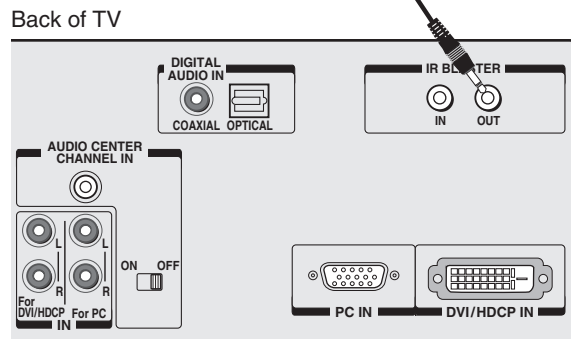
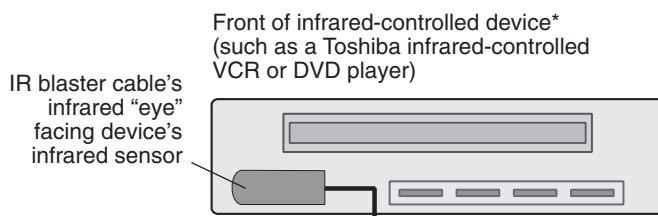
The IR blaster allows you to remotely operate (through the TV) most infrared-controlled devices\* (such as a Toshiba infrared-controlled VCR or DVD player) enclosed within an entertainment center or similar cabinet. Without the IR blaster, the device typically would need to be visible to operate it remotely.

You can use the TV's remote control (programmed to operate the device; see pages 19–25) or the device's remote control. Point the remote control at the front of the TV and press the button for the desired function. The signal passes from the remote control through the TV to the device via the IR blaster cable (included with your TV).

To connect, align the IR blaster cable's infrared "eye" with the device's infrared sensor and attach it using double-sided mounting tape (included with the cable in the accessory pack). Plug the other end of the IR blaster cable into the TV's IR BLASTER OUT terminal.

You will need:

- one IR blaster cable (included)
- one piece of double-sided mounting tape (included)



With this connection, point the Toshiba TV remote control at the front of the TV to operate both the TV and the infrared-controlled device. (You also can point the device's remote control at the TV to operate the device, but you also will need to use the TV's remote control to operate the TV.)

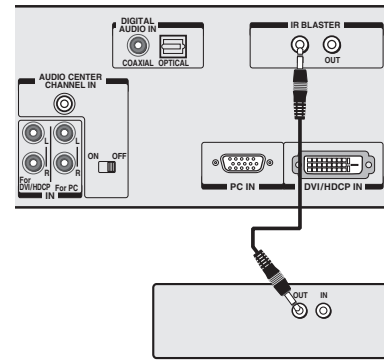
\*The IR blaster OUT function has been verified for use with Toshiba infrared-controlled devices. The IR blaster IN function has been verified for use with **CRESTRON** SmarTouch™ STS/STS-C wireless RF control systems. Due to the wide variation in remote control operation among manufacturers, these functions may or may not operate with other brands. SmarTouch is a trademark of Crestron Electronics, Inc. ([www.crestron.com](http://www.crestron.com)).

For additional control options for your home theater system, you can connect an IR receiver/repeater (not included) or a home theater control system (not included) to the TV's IR BLASTER IN terminal.\*

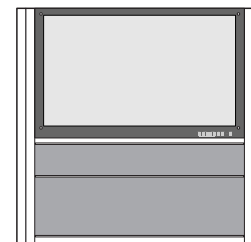
See the Specifications section in the back of this manual for IR BLASTER IN terminal requirements.

Contact your home theater electronics dealer for details about home theater control systems.

### Back of TV



Back of IR receiver/repeater or home theater control system\* (not included)



IR receiver/repeater or home theater control system



With this connection, point the Toshiba TV remote control at the front of the IR receiver/repeater or home theater control system to operate the TV.



## Connecting an audio system

This connection allows you to hear the TV sound through external speakers connected to an audio amplifier.

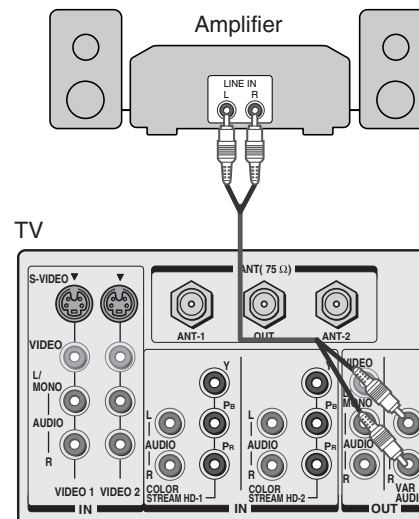
To control the audio through the amplifier, turn on the TV and the amplifier, set the volume of both to a moderate level, and turn off the TV's built-in speakers (see "Turning off the built-in speakers" on page 55).

You will need:

- one pair of standard audio cables

### Note:

If the volume of either the TV or the amplifier is set to 0 (or OFF), you will not hear any sound.



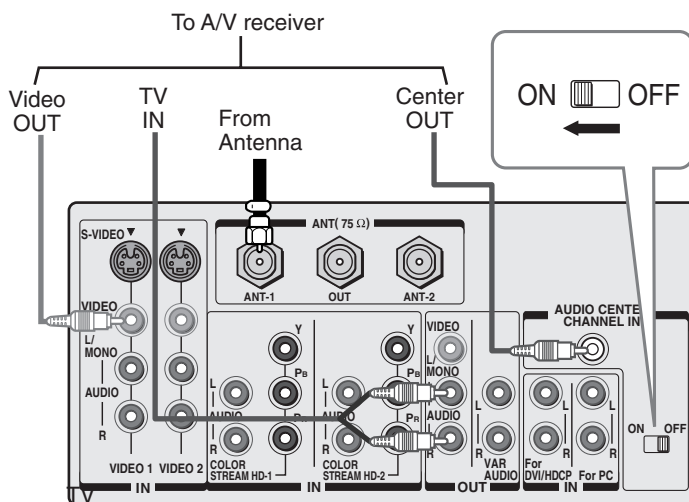
## Connecting an A/V receiver

This connection allows you to use an A/V (audio/video) 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 standard A/V cables
- one single standard 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.

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

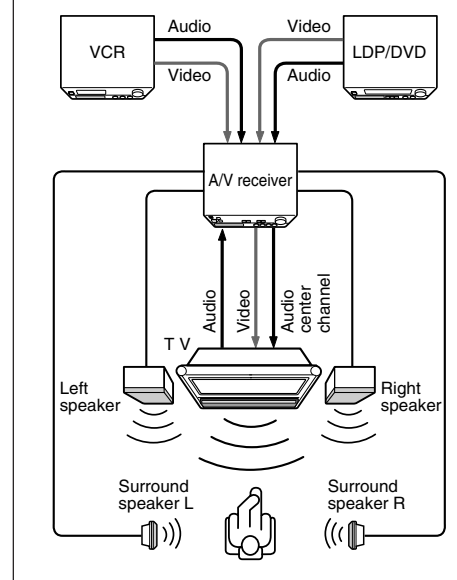
To use the TV speakers as normal speakers, set the Audio Center Channel ON/OFF switch to the OFF position.

### Caution:

To avoid damaging the 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 terminal (amplified signal) to the TV's Audio Center Channel IN terminal.

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



\* Dolby and Pro Logic are registered trademarks of Dolby Laboratories.

## Connecting a computer

You can connect an analog RGB (15-pin) computer video cable to the PC IN terminal on the TV.

The following signals can be displayed:

- VGA: 640 x 480/60 Hz (VESA 480-60)
- SVGA: 800 x 600/60 Hz (VESA 640-60)
- XGA: 1024 x 768/60 Hz (VESA 768-60)

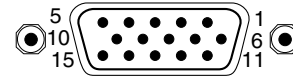
You will need:

- one computer video cable (D-sub 15-pin)
- one conversion adapter (the adapter is not necessary if you are using a DOS/V compatible D-sub 15-pin terminal).
- audio cable for TV-to-PC connection

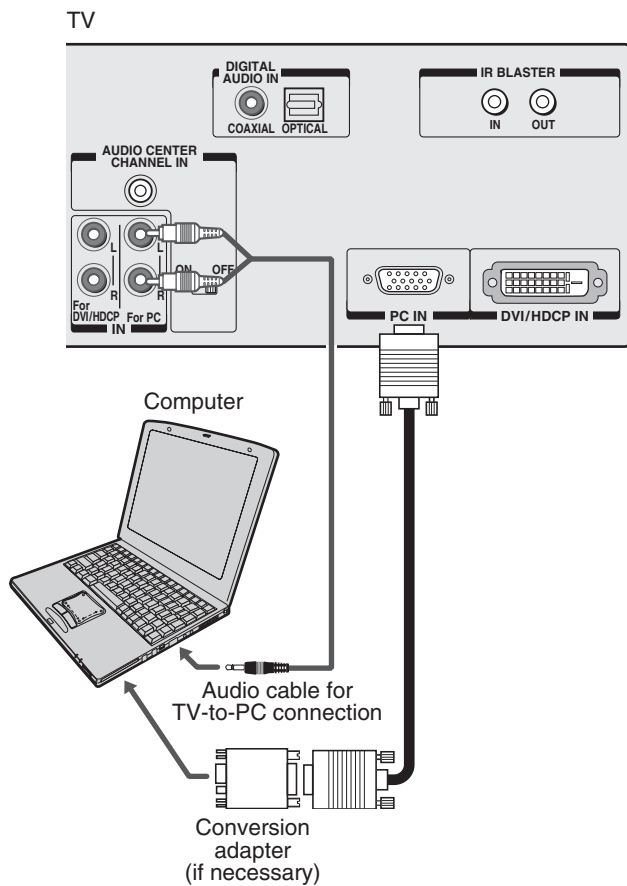
**Note:**

Some computer models cannot be connected to this TV.

Pin layout for PC IN video terminal



Pin No.	Signal
1	R
2	G
3	B
4	NC (not connected)
5	NC
6	Ground
7	Ground
8	Ground
9	NC
10	Ground
11	NC
12	NC
13	H-sync
14	V-sync
15	NC





## Using the remote control

### Preparing the remote control for use

Your Toshiba TV remote control has one dedicated TV mode and five universal modes: VCR, Cable/SAT, DVD, Audio1, and Audio2. The target devices and default devices being programmed for each mode are as follows:

Target device/Mode mapping

Mode	Device
TV	Toshiba TV
CABLE/SAT	Universal Cable, Satellite
VCR	Universal VCR, DVD, LD, Cassette
DVD	Universal DVD, VCR, LD, Cassette
AUDIO1	Universal Audio: Amp., Tuner, Misc.Audio, CD/MD
AUDIO2	Universal Audio: CD/MD, Amp., Tuner, Misc.Audio

Default device codes

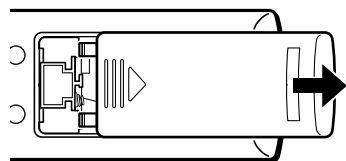
Mode	Default device
TV	Toshiba TV
CABLE/SAT	Toshiba Satellite receiver
VCR	Toshiba VCR
DVD	Toshiba DVD
AUDIO1	Pioneer Audio receiver
AUDIO2	Pioneer LD

Repeatedly press MODE to cycle among the modes. If you own different brands of audio/video devices, you must first program your remote control (see "Programming the remote control for use with your audio/video devices" on page 22).

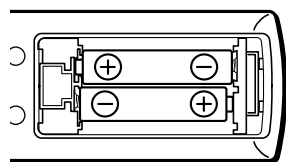
### Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off the back of the remote control.



2. Install two "AA" size alkaline batteries. Match the + and - signs on the batteries to the signs on the battery compartment.

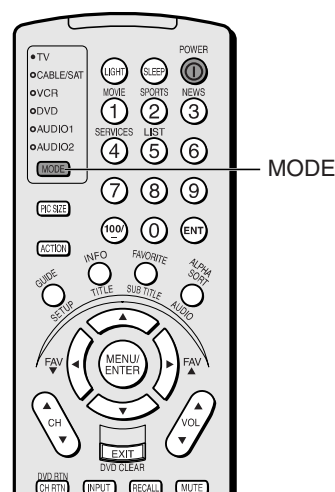


3. Slide the battery cover back on to the remote control until the lock snaps.

#### Note:

Your TV's remote control may not operate certain features on your VCR, cable TV converter, or other electronic device.

Refer to the owner's manuals for your other devices to determine their available features. If your TV's remote control does not operate a specific feature on a device, use the remote control that came with the device.



#### 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 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:

- Battery life expectancy is about one year with normal use.

### Remote Control functional key chart

Key Label	Toshiba TV (TV)	Cable (CBL/SAT)	Satellite (CBL/SAT)	VCR	DVD/LD	Receiver (AUDIO)	CD/MD (AUDIO)	Cassette (VCR)
LIGHT	Lights the remote key, and toggles between enabled and disabled Illumination mode.							
SLEEP	Sleep timer	---	---	---	---	---	---	---
POWER	Power	Power	Power	Power	Power	Power	Power	Power
1/MOVIE	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	AV input 1	Digit 1	Digit 1
2/SPORTS	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	AV input 2	Digit 2	Digit 2
3/NEWS	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	AV input 3	Digit 3	Digit 3
4/SERVICES	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	AV input 4	Digit 4	Digit 4
5/LIST	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	CD	Digit 5	Digit 5
6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Tuner	Digit 6	Digit 6
MODE	Remote control device mode selection							
PIC SIZE	Selects the image shape.	← TV	← TV	← TV	← TV	← TV	← TV	← TV
7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Phono	Digit 7	Digit 7
8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Cassette	Digit 8	Digit 8
9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Aux	Digit 9	Digit 9
ACTION	---	---	Action, Menu	---	Menu	---	---	---
100/-	100	---	100	100	100	100	100	100
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
ENT	---	CH Enter	CH Enter	CH Enter	---	---	---	---
GUIDE/SETUP	---	---	Guide	---	DVD setup	---	---	---
INFO/TITLE	---	---	INFO	---	TITLE= Top menu	---	---	---
FAVORITE/ SUBTITLE	Favorite CH	---	Favorite CH	---	Subtitle	---	---	---
ALPHASORT/ AUDIO	---	---	Alphasort	---	Audio	---	---	---
MENU/ ENTER	Menu open/ Enter	---	Select	---	Enter	---	---	---
▲▼	Menu select	---	Menu select	---	Menu select	---	---	---
◀▶/FAV ▼▲	Menu select/ FAV ▼▲	---	Menu select	---	Menu select	---	---	---
VOL ▲▼	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	Volume up/down*	---
EXIT/ DVD CLEAR	Exit	Exit	Exit	Exit	DVD clear	Exit/Clear	Exit/Clear	Exit/Clear
CH ▲▼	Channel up/down	Channel up/down	Channel up/down	Channel up/down	---	Channel up/down	---	---
INPUT	TV/Video select	← TV	← TV	VCR input	← TV	Input	← TV	← TV
MUTE	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	Sound mute*	---
RECALL	On-screen display	---	On-screen display	On-screen display	On-screen display	---	---	---
CH RTN/ DVD RTN	Previous channel	Previous channel	Previous channel	Previous channel	DVD return	---	---	---
SLOW/ DIR	▶ ◀	---	---	Forward ---	Forward Reverse	---	---	---
SKIP/ SEARCH	▶ ◀	---	---	---	Forward Reverse	---	Forward Reverse	Forward Reverse
REW	VCR →	VCR →	VCR →	Rewind	Rewind	Rewind	Rewind	Rewind
PAUSE/STEP	VCR →	VCR →	VCR →	Pause	Pause	Pause	Pause	Pause
PLAY	VCR →	VCR →	VCR →	Play	Play	Play	Play	Play
FF	VCR →	VCR →	VCR →	F. Forward	F. Forward	F. Forward	F. Forward	F. Forward



Key Label	Toshiba TV (TV)	Cable (CBL/SAT)	Satellite (CBL/SAT)	VCR	DVD/LD	Receiver (AUDIO)	CD/MD (AUDIO)	Cassete (VCR)
TV/VCR	VCR →	---	TV/SAT	TV/VCR	---	---	---	Reverse
AM/FM DISC	---	---	---	---	Disc shift	AM/FM	Disc shift	Deck side A/B switch
STOP	VCR →	VCR →	VCR →	Stop	Stop	Stop	Stop	Stop
REC**	VCR →	VCR →	VCR →	Record**	---	Record**	Record**	Record**
PIP CH ▲▼	POP channel up/down	← TV	← TV	← TV	← TV	← TV	← TV	← TV
PIP	POP on/off	← TV	← TV	← TV	← TV	← TV	← TV	← TV
MULTI	Strobe	← TV	← TV	← TV	← TV	← TV	← TV	← TV
STILL	POP Still	← TV	← TV	← TV	← TV	← TV	← TV	← TV
SWAP	POP Swap	← TV	← TV	← TV	← TV	← TV	← TV	← TV
LOCATE	POP Locate	← TV	← TV	← TV	← TV	← TV	← TV	← TV
SOURCE	POP Source	← TV	← TV	← TV	← TV	← TV	← TV	← TV

**Notes:**

- "—" will send nothing.
- "← TV" will jump to TV.
- "→VCR" will jump to last active VCR or DVD. Active VCR/DVD is defined as the mode that remains for a minimum of 5 seconds, or if a key is pressed in that mode.
- \* The VOLUME and MUTE will jump to "TV" by default. When the volume is unlocked, all the devices will have their own volume. The AUDIO1/2 (Receiver, CD) modes will have their own volume even if Volume Lock is on TV, CABLE/SAT, VCR, or DVD. See "Using the Volume Lock feature" on page 23.
- \*\* Press the REC button two times within 5 seconds to record each A/V source.

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## Programming the remote control for use with your audio/video devices

### Device code setup

1. Refer to the device code table on pages 24–25 to find the code for the brand of your device.  
If more than one code is listed, try each one separately until you find the one that works.
2. Press MODE until the Mode indicator of the device (CABLE/SAT, VCR, DVD, AUDIO1, AUDIO2) lights up.
3. While holding down the RECALL button, press the Channel Number buttons to enter the four-digit code for your brand of device. If a valid code is entered, the mode indicator will blink twice. If an invalid code is entered, the mode indicator will blink one long blink.
4. Point the remote control at the device and press POWER to test the code.  
If the device turns on, you have entered the correct code.  
If the device does not respond to the remote control, you may have entered the wrong code. Repeat steps 3 and 4 using another code.
5. Press MODE to select the TV mode to control the TV.

### Note:

- Every time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to any of the codes for your VCR brand, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

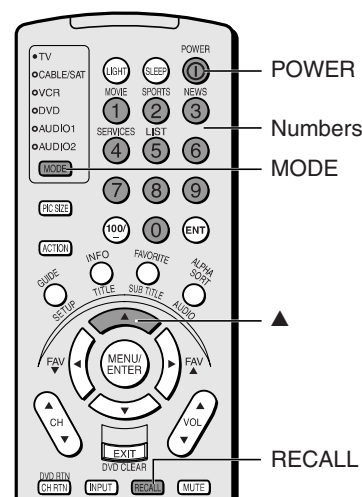
### Searching and sampling the code of a device (8500)

If you do not know the device code for a particular device, you can cycle the remote control through the available codes for that device mode and sample the functions to find the code that controls the target device. The keys available to be sampled (if applicable to that mode), are POWER, 1, VOL ▲, CH ▲, and PLAY. Invalid keys will be ignored while in program mode.

To cycle through each available device code and sample its functions:

1. Press MODE to select the mode you want to set up.
2. While holding down the RECALL button, press 8 –5 –0 –0.  
The remote control will enter program mode.
3. Point the remote control at the target device and press POWER (or other function buttons that are available to be sampled).
4. If the device responds to the remote control:  
Press RECALL to store the device code.  
The mode indicator will blink twice and the remote control will exit the program mode.  
If the device does not respond to the remote control:  
Press ▲, and then press POWER.  
Repeat this step until the device responds to the remote control, and then press RECALL.

**Note:** When a search cycle is completed, the mode indicator will blink three times. The remote control will begin to cycle through the available codes again. If no key is pressed within 10 seconds while programming, the remote control will exit the program mode and return to the previous code.



## Using the volume lock feature (8000)

For the TV, CABLE/SAT, VCR, and DVD modes, the volume controls (VOL ▲▼ and MUTE) can be programmed (locked) to the selected device mode. This feature does not apply to the AUDIO1/2 modes.

For example, to lock the volume controls to always jump to the CABLE/SAT mode:

1. Repeatedly press MODE to select the CABLE/SAT mode.
  2. While holding down the RECALL button, press 8 -0 -0.
  3. Press VOL ▲.
- The Mode indicator will blink two times (locked).

The following table describes in more detail the Volume Lock implementation.

Volume Locked to	TV	CBL/SAT	VCR	DVD	AUD1	AUD2
TV (default)	TV	TV	TV	TV	AUD1	AUD2
CBL/SAT	CBL/SAT	CBL/SAT	CBL/SAT	CBL/SAT	AUD1	AUD2
VCR	VCR	VCR	VCR	VCR	AUD1	AUD2
DVD	DVD	DVD	DVD	DVD	AUD1	AUD2
AUD1	AUD1	AUD1	AUD1	AUD1	AUD1	AUD1
AUD2	AUD2	AUD2	AUD2	AUD2	AUD2	AUD2

To reset the volume controls to the original device code:

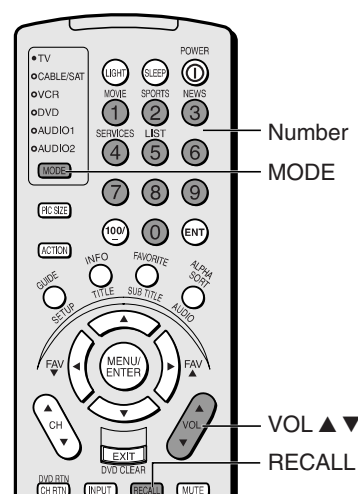
1. While holding down the RECALL button, press 8 -0 -0.
  2. Press VOL ▼.
- The Mode indicator will blink four times (unlocked).

## Operational feature reset (8900)

This feature clears all setup features not related to “Device code set up” and resets the Volume Lock to “TV.”

To reset the features:

- While holding down the RECALL button, press 8 -9 -0 -0.  
The Mode indicator will blink two times, and then pause and blink two more times.



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## Device code table

## VCR setup codes

Brand	Code
ADMIRAL	0135
AIWA	0127, 0132, 0181
AKAI	0129, 0114, 0115, 0116
AUDIO DYNAMIC	0139, 0111
BELL&HOWELL	0105, 0113
BROKSONIC	0120, 0126, 0180
CANON	0123, 0125
CCE	0143
CITIZEN	0106
CRAIG	0105, 0129, 0106
CURTIS MATHES	0145, 0124, 0127
DAEWOO	0143, 0101, 0124, 0175
DBX	0139, 0110, 0111
DIMENSIA	0145
EMERSON	0143, 0126, 0119, 0103, 0125, 0142, 0120, 0118
FISHER	0105, 0108, 0109, 0107, 0113, 0165
FUNAI	0127, 0126, 0120, 0134
GE	0133, 0145, 0124
GO VIDEO	0137, 0151, 0163, 0149, 0150, 0182
GOLDSTAR	0106
GRADIENTE	0170, 0171, 0168, 0134, 0156
HITACHI	0123, 0145, 0100, 0127, 0168
INSTANT REPLAY	0124, 0123
JENSEN	0139
JVC	0139, 0110, 0111, 0134, 0157, 0158, 0184, 0185
KENWOOD	0139, 0110, 0106, 0111
LG	0159
LXI	0127, 0106, 0100, 0107, 0108, 0105, 0109
MAGNAVOX	0131, 0123, 0124, 0173
MARANTZ	0139, 0110, 0111
MARTA	0106
MEMOREX	0124, 0109
MGA	0138, 0140, 0147, 0148, 0141, 0142
MINOLTA	0100, 0145
MITSUBISHI	0138, 0140, 0147, 0148, 0141, 0142, 0161, 0164
MULTITECH	0147, 0127, 0104
NEC	0139, 0110, 0111, 0134
OLYMPIC	0124, 0123
OPTIMUS	0128, 0121, 0135, 0106
ORION	0126, 0120, 0132
PANASONIC	0123, 0124, 0121, 0122
PENNEY	0124, 0100, 0145, 0105, 0139, 0110, 0111
PENTAX	0100, 0111, 0145

PHILCO	0131, 0124, 0127, 0123, 0126, 0120, 0143
PHILIPS	0131, 0123, 0124, 0173
PIONEER	0123
PROSCAN	0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0133, 0174
QUASAR	0121, 0122, 0123, 0124
RADIO SHACK	0133, 0124, 0105, 0136, 0109, 0140, 0127
RCA	0133, 0145, 0100, 0123, 0124, 0131, 0146, 0101, 0102, 0170, 0172, 0174, 0176, 0183
REALISTIC	0124, 0105, 0136, 0109, 0140, 0127
SAMSUNG	0137, 0102, 0104, 0133
SAMTRON	0163
SANSUI	0139, 0126, 0120, 0152
SANYO	0105, 0109, 0113
SCOTT	0101, 0102, 0104, 0109, 0138, 0140, 0147, 0148, 0126, 0120
SEARS	0105, 0106, 0107, 0108, 0100
SHARP	0135, 0136, 0167, 0162
SHINTOM	0117
SIGNATURE 2000	0127, 0135
SINGER	0117
SONY	0128, 0129, 0130, 0153, 0154, 0155
SV2000	0127
SYLVANIA	0131, 0123, 0124, 0127, 0178
SYMPHONIC	0127, 0168, 0177
TASHIRO	0106
TATUNG	0139, 0110, 0111
TEAC	0139, 0110, 0127, 0111
TECHNICS	0121, 0122, 0123, 0124
TEKNICA	0124, 0127, 0112
THOMSON	0179, 0183
TOSHIBA	0101, 0146, 0166, 0160
VECTOR RESEARCH	0111
WARDS	0135, 0136, 0109, 0144, 0106
YAMAHA	0105, 0139, 0110, 0111
ZENITH	0144, 0106, 0169, 0180

## Cable box setup codes

Brand	Code
ABC	1124
ARCHER	1132, 1125
CABLEVIEW	1105, 1132
CITIZEN	1122, 1105
CURTIS	1112, 1113
DIAMOND	1124, 1132, 1125
EAGLE	1129
EASTERN	1134
GCBRAND	1132, 1105
GEMINI	1122, 1143
G.I./JERROLD	1119, 1124, 1125, 1126, 1127, 1120, 1121, 1122, 1111, 1123, 1152
HAMLIN	1140, 1141, 1142, 1145, 1118, 1112
HITACHI	1103, 1124
MACOM	1103, 1104, 1105, 1108
MAGNAVOX	1133
MEMOREX	1130
MOVIE TIME	1132, 1105
OAK	1139, 1137, 1102
PANASONIC	1109, 1110, 1114, 1151, 1153
PHILIPS	1128, 1129, 1130, 1106, 1107, 1150, 1131
PIONEER	1101, 1116
PULSAR	1105, 1132
PUSER	1132
RCA	1115
REALISTIC	1132
REGAL	1112, 1118, 1140, 1141, 1142, 1145, 1149
REGENCY	1134
REMBRANT	1137, 1132, 1105, 1138
SAMSUNG	1105
S.A.	1111, 1112, 1113
SLMARK	1105, 1101
SPRUCER	1105, 1110
STARGATE	1132, 1105
TELECATION	1148
TELEVIEW	1101, 1105
TEXSCAN	1144
TOCOM	1135, 1136, 1147
TOSHIBA	1104, 1146
UNIKA	1132, 1125
UNIVERSAL	1122, 1132
VIDEOWAY	1106
VIEWSTAR	1129, 1130
ZENITH	1117, 1100
ZENITH/DRAKE	
SATELLITE	1100

## Device code table

### CD Player setup codes

Brand	Code
ADMIRAL	6126
AIWA	6133, 6135
CARVER	6129
DENON	6142, 6151
EMERSON	6139
FISHER	6105, 6106
GARRARD	6117
HARMAN KARDON	6120, 6121, 6123, 6119
HITACHI	6107
JENSEN	6134
JVC	6140, 6141, 6145, 6148, 6151
KENWOOD	6100, 6101, 6111, 6145
LXI	6136
MAGNAVOX	6129, 6132
MARANTZ	6129
MCINTOSH	6121
NAKAMICHI	6110
ONKYO	6114, 6115
OPTIMUS	6108, 6118, 6120, 6122
PANASONIC	6124, 6125, 6127, 6150
PHILIPS	6129, 6130, 6149
PIONEER	6108
QUASAR	6125, 6127, 6124
RCA	6147, 6137, 6138, 6131, 6152
SANSUI	6110, 6146, 6113
SANYO	6105
SCOTT	6110, 6146
SHARP	6142, 6143
SHERWOOD	6120
SONY	6128
SOUNDE-SIGH	6144
TEAC	6112, 6116, 6118
TECHNICS	6127, 6124, 6125
VICTOR	6140, 6141, 6145
YAMAHA	6102, 6103, 6104

### Receiver setup codes

Brand	Code
ADMIRAL	4120
AIWA	4125, 4126, 4146
DENON	4134, 4135, 4136, 4143
FISHER	4104
GARRARD	4113
HARMAN KARDON	4115, 4123, 4145
JENSEN	4129
JVC	4132, 4133, 4140, 4144
KENWOOD	4100, 4108, 4141, 4142, 4147
MAGNAVOX	4127, 4128
MARANTZ	4124
MCINTOSH	4116
MITSUBISHI	4148
NAKAMICHI	4106, 4117
ONKYO	4109, 4114
OPTIMUS	4103, 4127, 4131, 4130
PANASONIC	4119, 4118, 4121
PHILIPS	4123
PIONEER	4105, 4107, 4150

QUASAR	4119, 4118, 4121
RCA	4103, 4105, 4127, 4131, 4130, 4149
SANSUI	4103, 4111, 4139
SHARP	4134, 4137
SONY	4122
SOUNDE-SIGH	4138
TEAC	4112, 4113, 4111, 4110
TECHNICS	4121, 4118, 4119
VICTOR	4132, 4133
YAMAHA	4101, 4102

### Cassette Player setup codes

Brand	Code
AIWA	7123, 7124, 7125
DENON	7131
FISHER	7103
JENSEN	7114
JVC	7129, 7130, 7132, 7133
KENWOOD	7100, 7107
MARANTZ	7102
NAKAMICHI	7105
ONKYO	7108, 7109, 7113
PANASONIC	7116, 7118
PHILIPS	7122, 7121
PIONEER	7104, 7106
RCA	7126, 7127, 7128, 7134, 7135
SANSUI	7105, 7110, 7112
SHARP	7131
SONY	7119, 7120
TEAC	7110, 7111, 7115
TECHNICS	7116, 7118, 7117
YAMAHA	7101, 7102

### Laser Disc setup codes

Brand	Code
DENON	5114
HITACHI	5100
KENWOOD	5102, 5103
MAGNAVOX	5101
MARANTZ	5114
MITSUBISHI	5114, 5118, 5119
NEC	5114
PANASONIC	5104, 5105, 5106, 5115
PHILIPS	5111
PIONEER	5114
PROSCAN	5114
QUASAR	5104, 5105, 5106, 5115
RCA	5114
SAMSUNG	5112
SANYO	5114, 5117
SHARP	5113, 5116
SONY	5107, 5108, 5109, 5110
TEAC	5114
TOSHIBA	5114
YAMAHA	5101

### DVD setup codes

Brand	Code
AIWA	3123
APEX	3120
DENON	3100, 3117
FERGUSON	3101
HITACHI	3111
JVC	3109
KENWOOD	3115, 3129
KONKA	3119
MITSUBISHI	3105
NORDMENDE	3101
ONKYO	3121
ORITRON	3124
PANASONIC	3100
PHILIPS	3103, 3116
PIONEER	3102
RAITE	3113
RCA	3101, 3106
SABA	3101
SAMPO	3114
SAMSUNG	3110
SHARP	3108
SILVANIA	3132, 3118
SMC	3125
SONY	3104, 3126, 3127, 3128
TECHNICS	3100
THOMSON	3101
TOSHIBA	3103
WAVE	3122
YAMAHA	3100, 3130
ZENITH	3107, 3112
VIALTA	3131
FUNAI	3132, 3118

### Satellite Receiver setup codes

Brand	Code
DISH NETWORK (Echostar)	2105, 2115, 2116, 2117
ECHOSTAR	2105
EXPRESS VU	2105, 2115
G.E.	2106
G.I. (GENERAL INSTRUMENT)	2108
GRADIENTE	2114
HITACHI	2103, 2111, 2112
HNS (Hughes)	2103
MAGNAVOX	2101, 2102
PANASONIC	2104
PHILIPS	2101, 2102, 2118
PRIMESTAR	2108
PROSCAN	2106, 2109, 2110, 2113
RCA	2106, 2109, 2110, 2113
SONY	2107
STAR CHOICE	2103, 2108
TOSHIBA	2100, 2103, 2119, 2120, 2121
UNIDEN	2101, 2102

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## Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see the "Remote Control functional key chart" on pages 20–21.

**POWER** turns the TV on and off

**SLEEP** allows access to the sleep timer (automatic TV shut-off) function (page 51)

**LIGHT** The first press of the LIGHT button lights the keypad and turns on the Illumination mode. With the Illumination mode on, pressing any other key lights the keypad for 5 seconds (10 seconds if you're in programming mode). Subsequent presses of the LIGHT button toggle between turning the Illumination mode on and off.

**Channel Numbers (0-9, 100)** allow direct access to channels (page 30)

**MODE** cycles through the six device modes: TV, CABLE/SAT, VCR, DVD, AUDIO1, and AUDIO2. The mode indicator light will remain lit for 10 seconds (page 19).

**PIC SIZE** cycles through the five picture sizes: Natural, Theater Wide 1, 2, 3 and Full (pages 35–36)

**FAVORITE** allows access to the favorite channel search function (page 32)

**MENU** allows access to on-screen programming menus (page 27)

**ENTER** sets programming menu information (page 27)

**▲▼ ◀▶** select or adjust programming menus (page 27)

**FAV ▼▲** cycles through favorite channels (page 33)

**CH ▲▼** cycles through programmed channels (page 30)

**VOL ▲▼** adjusts the volume level

**EXIT** exits the programming menus (page 27)

**INPUT** selects the video input source (page 49)

**MUTE** mutes the sound (page 52)

**RECALL** displays on-screen information (page 57)

**CH RTN** returns to the last viewed channels (page 32)

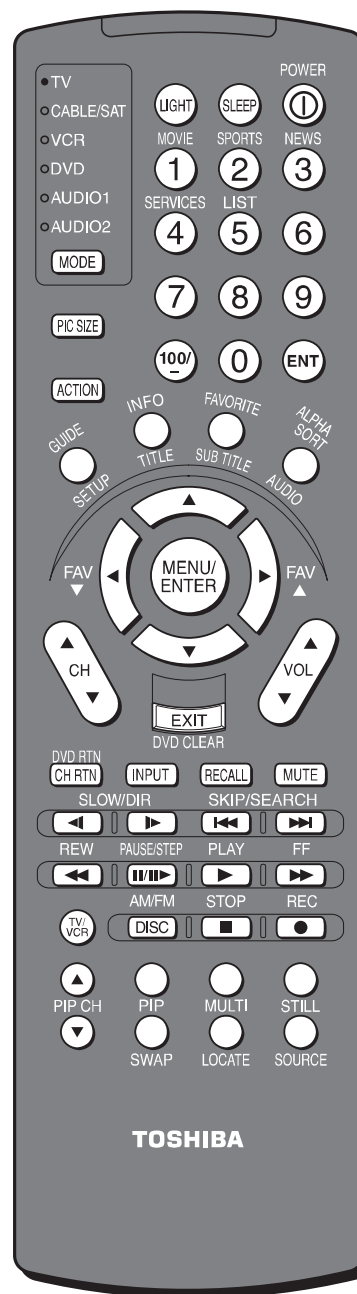
**PIP CH ▲▼** selects the POP (picture-out-picture) channel (page 38)

**PIP** turns the POP feature on and off (page 38)

**STILL** freezes the POP picture (page 39)

**SWAP** switches the main and POP pictures (page 39)

**SOURCE** selects the POP picture source (page 38)

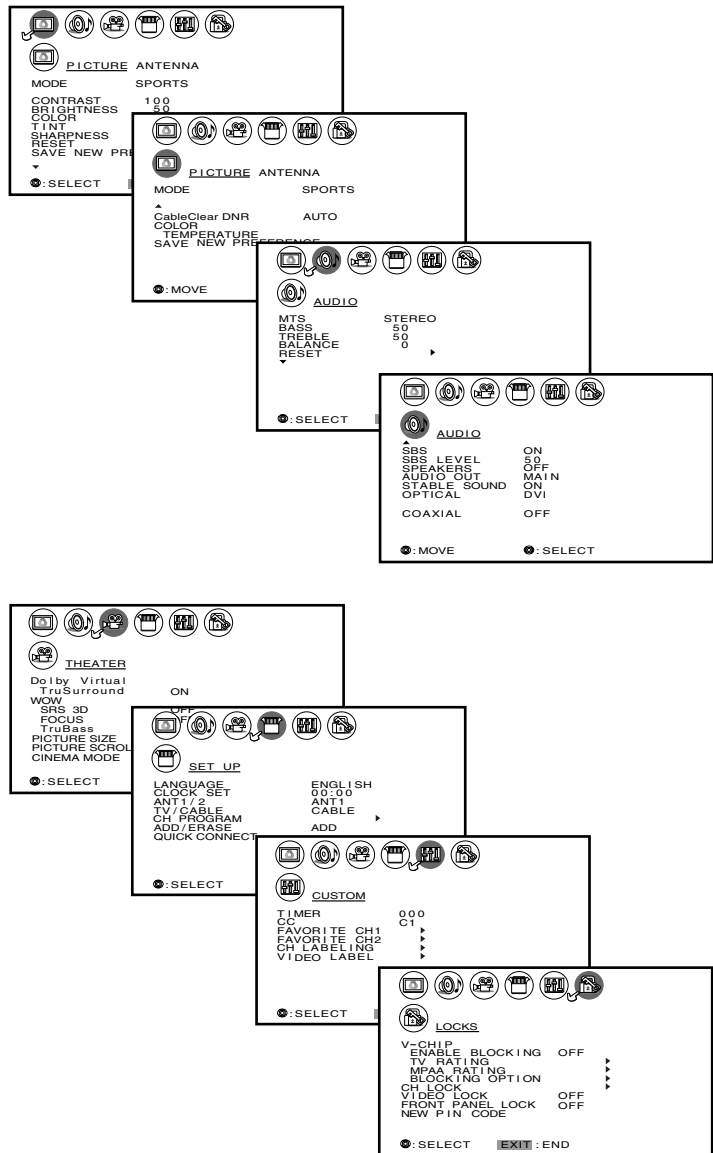


# Setting up your TV

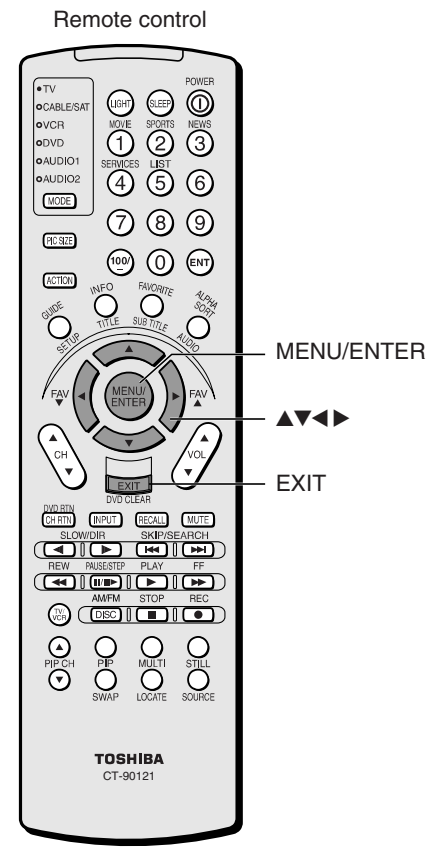
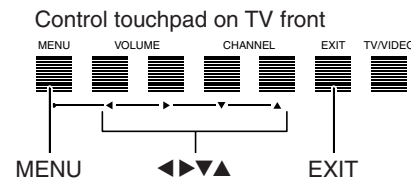
## Learning about the menu system

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 system using the control touchpad on the TV front or the remote control.

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

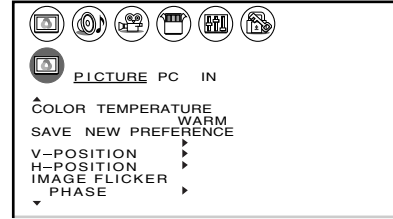


- Press ENTER to activate the function settings in the menus.
- If you do not make a selection within 15 seconds, the main menus close automatically; the other menus close automatically within 6 seconds.
- To close an on-screen menu instantly, press EXIT.



**Note:**  
When the TV is in PC IN mode\*:

- Menus and items not applicable to PC IN mode cannot be selected or adjusted. The only accessible menus are PICTURE, AUDIO, and THEATER.
- A different PICTURE menu is displayed (see illustration below). V-POSITION, H-POSITION, and IMAGE FLICKER PHASE adjustments are added. See page 48 for details.



\*To put the TV in PC IN mode, press INPUT on the remote control, and then press 7.

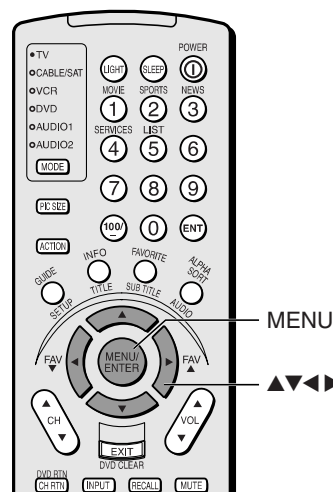
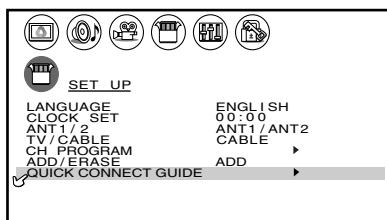
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## Using the Quick Connect Guide

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

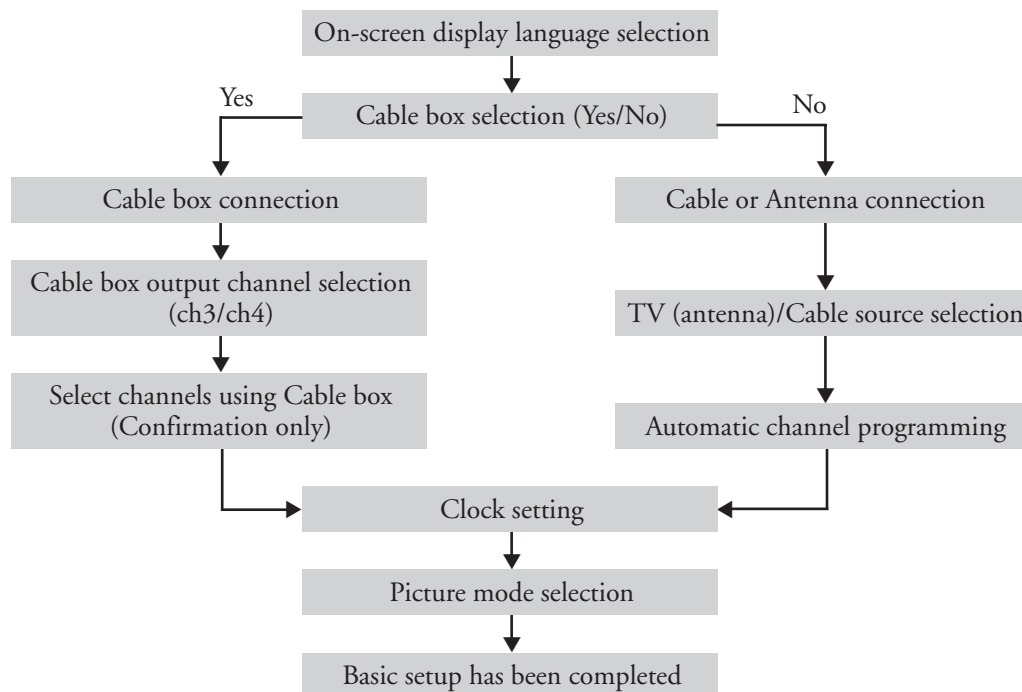
To manually start the Quick Connect Guide and change the current settings:

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



3. Press ◀ or ▶ to enter the Quick Connect Guide mode. Advance through the setup according to the guide displayed on-screen.
  - Press ◀ or ▶ to make a selection.
  - Press MENU to continue to the next screen.

The Quick Connect Guide will guide you through the following items.



To stop the Quick Connect Guide:  
Press EXIT or turn off the TV.

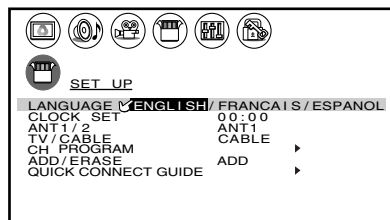


## Changing the on-screen display language

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.



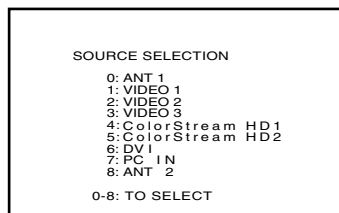
3. Press ◀ or ▶ to highlight your desired language.

## Selecting the antenna input

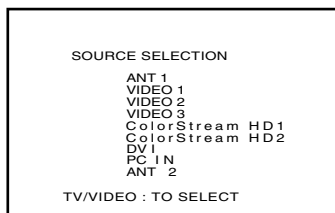
You can connect to two different antenna input sources (ANT 1 or ANT 2).

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

Press INPUT on the remote control or TV/VIDEO on the TV (see illustrations below). The current signal source displays in purple.



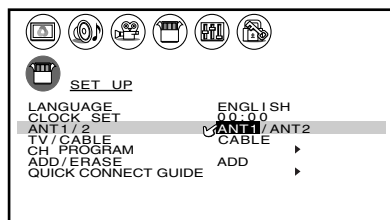
Pressing INPUT on the remote control displays the current signal source (press INPUT again or 0-8 to change)



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

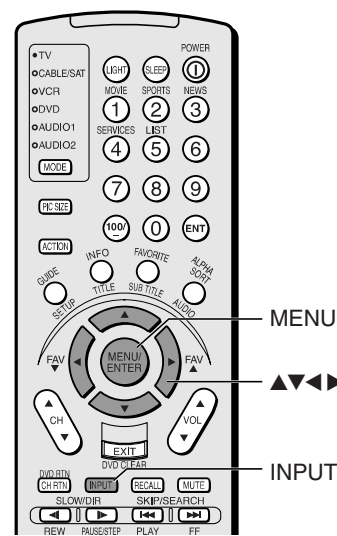
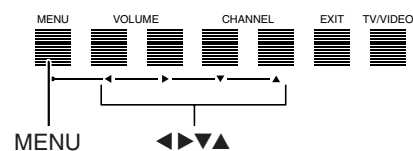
To select the antenna input using the menu system:

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

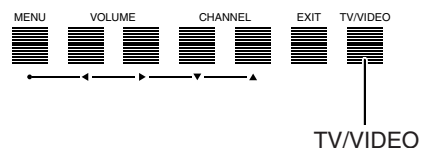


3. Press ◀ or ▶ to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.

Control touchpad on TV front



Control touchpad on TV front



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## Adding channels to the TV's memory

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

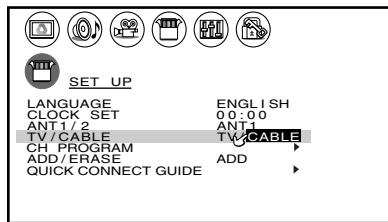
Follow the steps below and on the next page to program all active channels into the TV's memory.

### Programming channels automatically

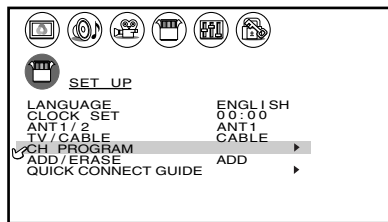
Your TV can automatically detect all active channels in your area and store them into its memory. After the channels are programmed automatically, you can manually add or erase individual channels (see page 31).

To program channels automatically:

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



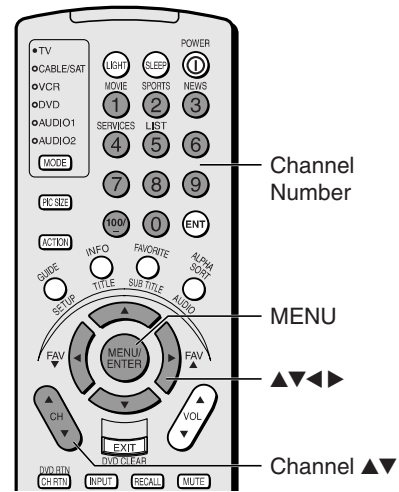
5. Press ◀ or ▶ to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

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.

#### Note:

To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.

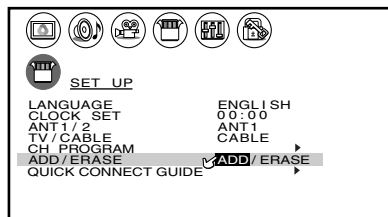


## Adding and erasing channels manually

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

To add or erase channels:

1. 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.
3. Press ▲ or ▼ to highlight ADD/ERASE.



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

## Changing channels

To change to the next programmed channel:

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

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

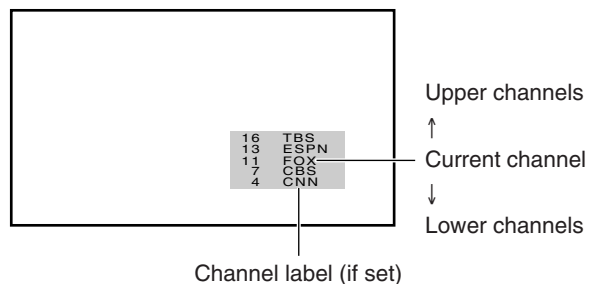
Press the Channel Number buttons (0–9 and 100).

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.

## Changing channels using SpeedSurf

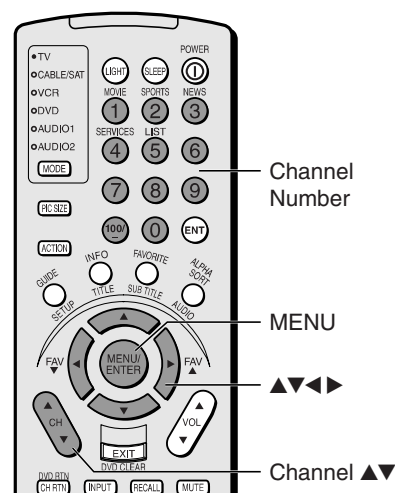
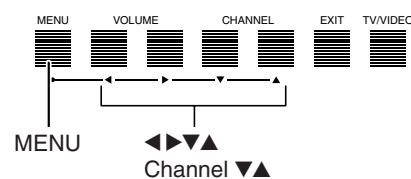
To change to a specific programmed channel using SpeedSurf:

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



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.

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## 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.

To switch between two channels:

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 be displayed.

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-screen. The channel has been programmed into the CH RTN button.
3. Continue to change channels.
4. Press CH RTN. The memorized channel will be selected.

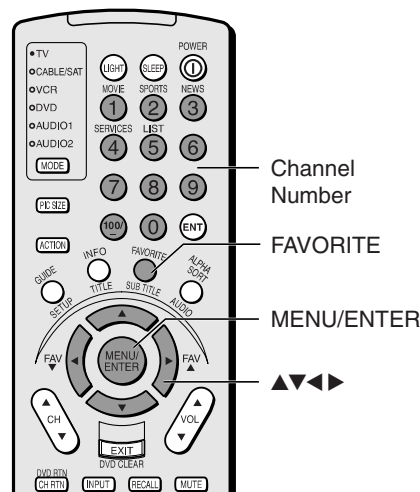
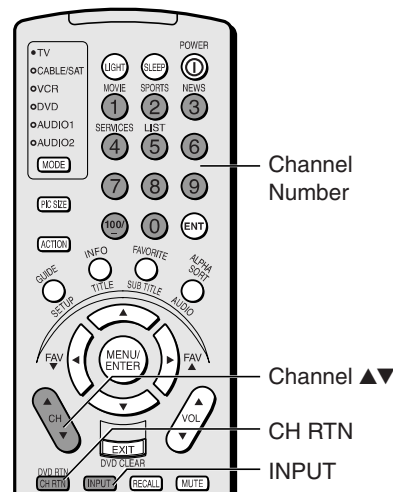
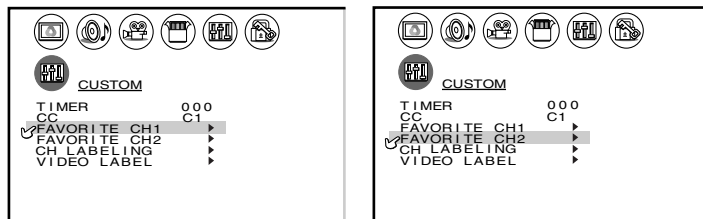
The TV will return to the memorized channel one time only. Once you press CH RTN and then change channels again, the CH RTN SurfLock memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that were selected.

#### Programming your favorite channels

You can preset up to 9 of your favorite channels each for the 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.

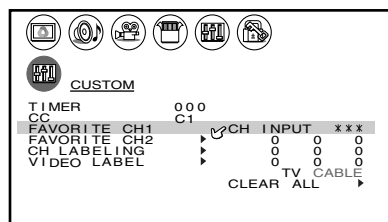


**Note:**

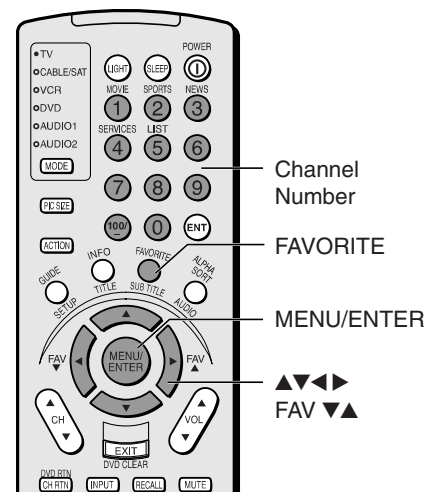
The favorite channel feature is not available in ANT2 mode.



- 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:

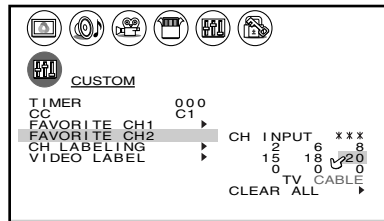
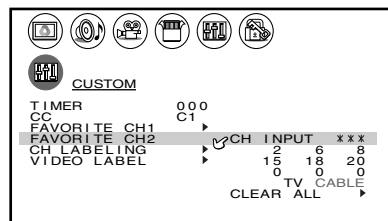
Press FAV ▼▲.

To quickly scan through your favorite channels in a 9-picture multi-window:

Press FAVORITE (see page 39).

To clear a favorite channel:

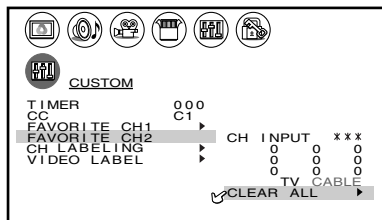
- Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- Press ▲ or ▼ to highlight FAVORITE CH2, for example.
- Press ◀ or ▶ to display the FAVORITE CH2 menu.
- Press ▲▼◀▶ to highlight the channel you want to clear, and then press ENTER.



- 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 ◀.



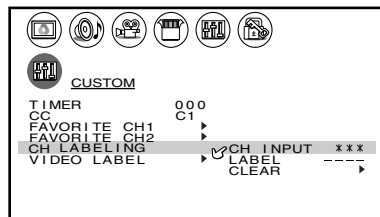
## Labeling channels

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

To create channel labels:

- Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- Press ▲ or ▼ to highlight CH LABELING.
- Press ◀ or ▶ to display the CH LABELING menu.

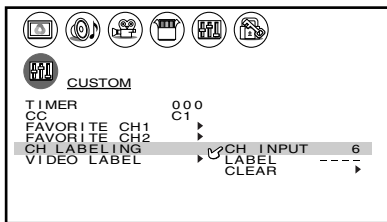
(Continued on next page)



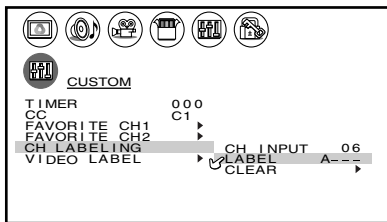
### Note:

The FAV ▲▼ buttons operate as menu ◀▶ buttons when a menu display is on-screen.

- Press the Channel Number buttons to select a channel you want to label.



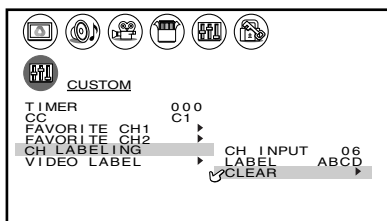
- Press ▼ to highlight LABEL.
- Repeatedly press ◀ or ▶ to select a character for the first space, and then press ENTER.



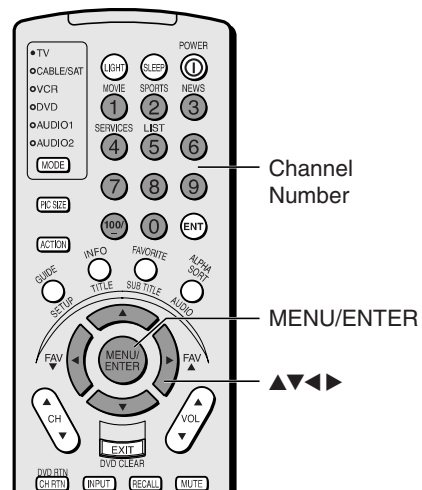
- Repeat step 6 to enter the rest of the characters.  
For a blank space in the label name, choose an empty space from the list of characters; otherwise, a dash “-” will appear in the space.  
You must assign a character to all four spaces or the channel will not be labeled.
- Repeat steps 4–7 for other channels. You can assign labels to a maximum of 32 channels.

To erase a channel label:

- Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- Press ▲ or ▼ to highlight CH LABELING.
- Press ◀ or ▶ to display the CH LABELING menu.
- Press ▼ to highlight CH INPUT, and then select the channel you want to clear using the Channel Number buttons.
- Press ▼ to highlight CLEAR.



- Press ◀ or ▶ to erase the channel label.
- Repeat steps 4–6 to erase other channel labels.







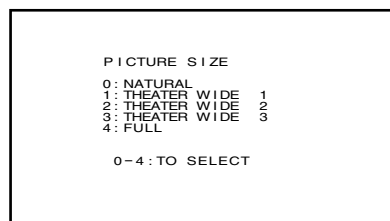
## Viewing the wide-screen picture formats

You can view 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.

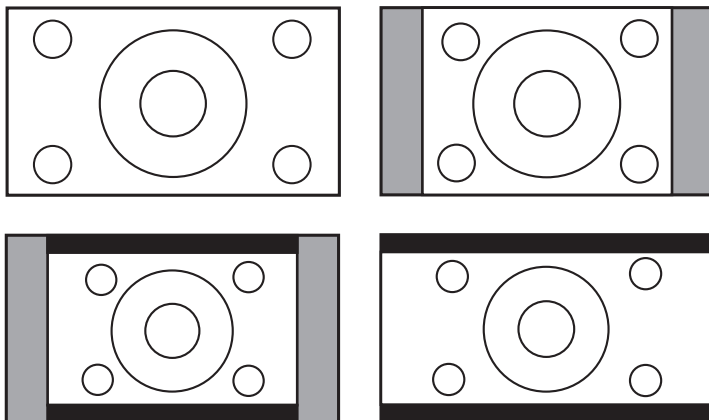
### Selecting the picture size

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



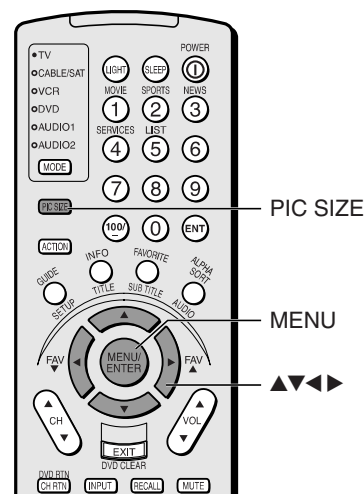
### Natural picture size

- The picture 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).



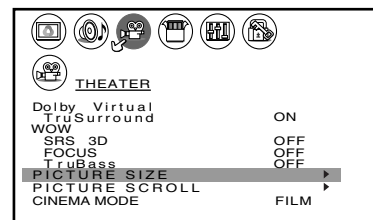
Natural picture size examples: The way the image displays will vary depending on the format of the program you are currently watching.

*(Continued on next page)*



### Note:

- If the TV is in PC IN mode, the only available picture sizes are Natural and Full.
- The PICTURE SIZE feature may not be available for some program formats.
- You also can change the picture size by selecting PICTURE SIZE in the THEATER menu.



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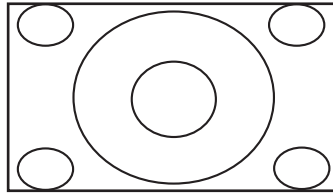
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(Continued from previous page)

### Theater Wide 1 picture size

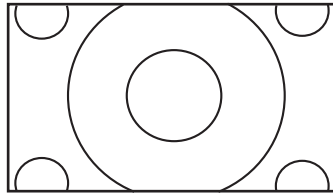
- The picture is non-uniformly enlarged—the center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- A small part of the picture at the top and bottom is hidden; however, this mode cannot be scrolled.



Theater Wide 1 picture size example

### Theater Wide 2 picture size

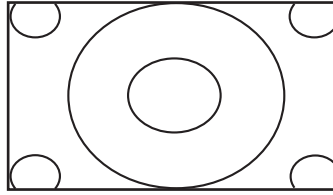
- The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).
- Part of the picture at the top and bottom is hidden. To view the hidden areas, see “Scrolling the Theater Wide picture” on page 37.



Theater Wide 2 picture size example

### Theater Wide 3 picture size

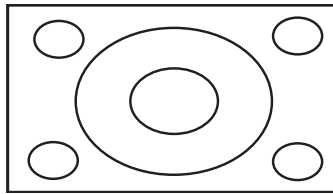
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but only slightly stretched taller.
- A small part of the picture at the top and bottom is hidden. To view the hidden areas, see “Scrolling the Theater Wide picture” on page 37.



Theater Wide 3 picture size example

### Full picture size

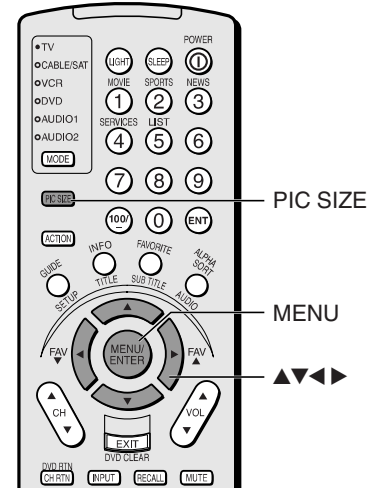
- The picture is non-uniformly enlarged—it is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example

### Note:

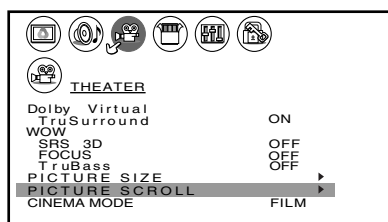
- To select the picture size, press **PIC SIZE** on the remote control or select **PICTURE SIZE** in the **THEATER** menu.
- If you select Theater Wide 2 or 3, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 37) or try viewing the program in Full picture size.



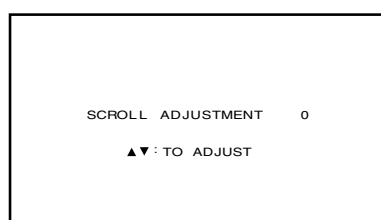


## Scrolling the Theater Wide picture (Theater Wide 2 and 3 only)

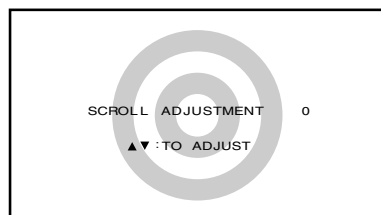
1. Press PIC SIZE to select either Theater Wide 2 or 3 mode.
2. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
3. Press ▲ or ▼ to highlight PICTURE SCROLL.



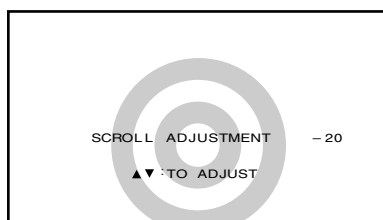
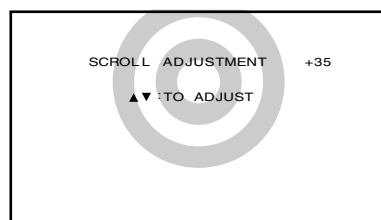
4. Press ◀ or ▶ to display the Scroll Adjustment mode.



5. Press ▲ or ▼ to adjust the vertical position of the picture.
  - Normal (center) position



- To raise the picture, press ▲.
- To lower the picture, press ▼.



## Selecting the cinema mode

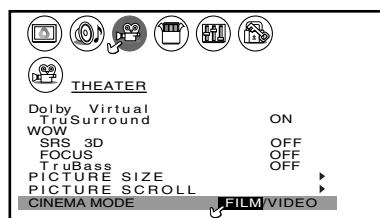
When you view a DVD movie (3:2 pulldown processed) from a DVD player connected to the ColorStream (component video) or DVI/HDCP inputs on the TV, smoother and more natural motion can be obtained by setting the CINEMA MODE to FILM.

To set the CINEMA MODE to FILM:

1. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
2. Press ▲ or ▼ to highlight CINEMA MODE.
3. Press ◀ or ▶ to select FILM.

To turn off the CINEMA MODE:

Select VIDEO in step 3 above.



PIC SIZE

MENU

▲▼◀▶

### Note:

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

- 480i signal source:
  - Wide 1: Not adjustable
  - Wide 2: +45 to -20
  - Wide 3: +45 to -20
- 480p, 720p, or 1080i signal source:
  - Wide 1: Not adjustable
  - Wide 2: +30 to -20
  - Wide 3: +30 to -20

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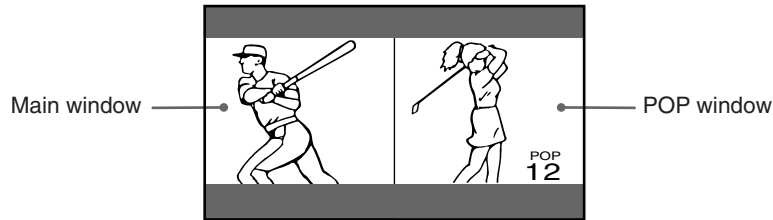
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## Using the POP double-window feature

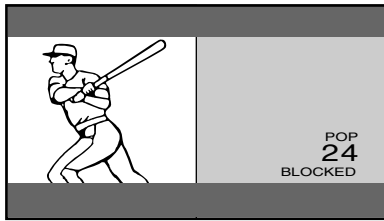
The POP (picture-out-picture) feature splits the screen into a double window that allows you to watch two programs at the same time. The POP program can come from a TV broadcast or an external source, such as a VCR.

To display a TV broadcast in the POP window:

1. Press PIP to display the POP window.

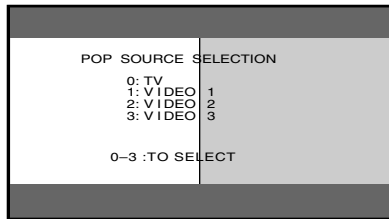


2. Press PIP CH ▲▼ to change the channel of the POP window. If the V-CHIP feature is active and you try to watch a TV program that exceeds your set rating limits, the program will be blocked (see "Using the V-CHIP menu" on page 41).



To display a picture from an external source in the POP window:

1. Connect the external source equipment (see "Connecting your TV" on pages 8–18).
2. Select the TV program you want to watch in the main window.
3. Press PIP to display the POP window.
4. Press SOURCE to display the POP SOURCE SELECTION window. Select the desired input source by pressing the corresponding number button (0–3). The current source displays in purple.



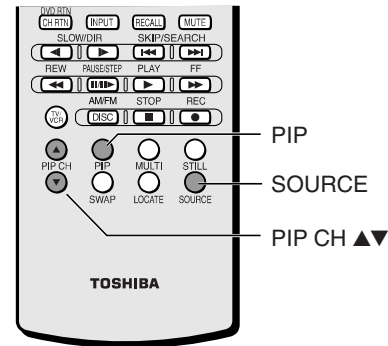
You can view a video tape as the POP picture, or select a channel for the POP window using the VCR's channel keys.

To close the POP window:

Press PIP again.

### Note:

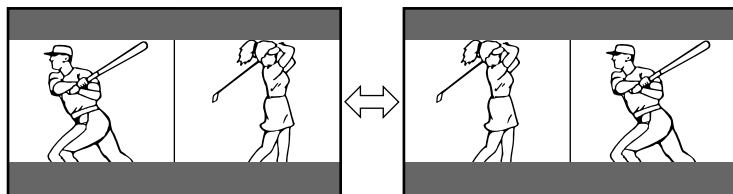
- The PIP buttons on the remote control operate the TV's POP features.
- You cannot access POP features when viewing ColorStream HD1/HD2, DVI, or PC IN input.
- You cannot display an ANT-2 signal source in the POP window.
- You can output the sound of either the main or POP program from the AUDIO OUT jacks (see "Selecting the AUDIO OUT sound" on page 56).





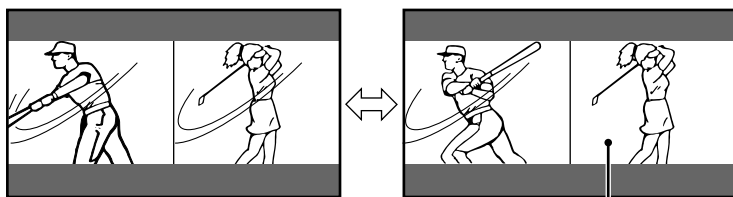
## Switching the main and POP pictures

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



## Freezing the POP picture

With the POP window open, press STILL to freeze the POP picture. To return to the moving picture, press STILL again.



Still picture

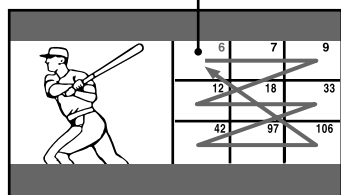
## Using the favorite channel search function

You can use the favorite channel search function to quickly scan your favorite channels. (See "Programming your favorite channels" on page 32.)

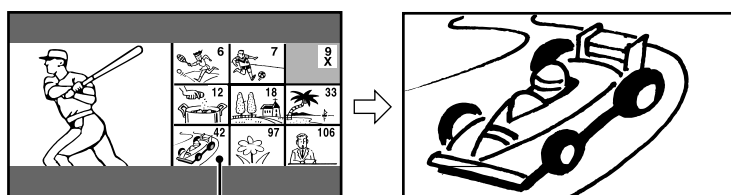
1. Press FAVORITE.

The TV automatically enters POP mode, and begins a nine-picture scan of your favorite channels in the POP window. The first of the nine windows will display as a moving picture.

Moving picture



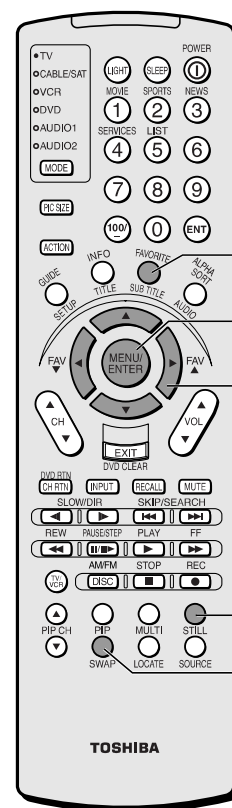
2. Press ▲▼◀▶ to select one of the nine pictures (becomes a moving picture).
3. Press ENTER to display the channel you selected in step 2 as a normal picture.



Moving picture

Every time you press FAVORITE, the POP window scans your favorite channels in the following order:

FAVORITE CH1 — FAVORITE CH2 — OFF



FAVORITE

ENTER

▲▼◀▶

STILL

SWAP

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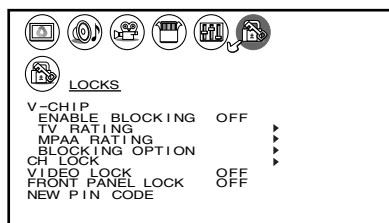
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## Using the LOCKS menu

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.

- **BLOCKING RESET status:** Press the Number buttons (0–9) to select a new 4-digit PIN code, and then press ENTER.
- **BLOCKING ACTIVE status (when the PIN code is already stored):** Press the Number buttons (0–9) to enter your 4-digit PIN code, and then press ENTER.

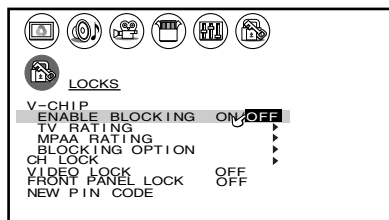


If the wrong PIN code is entered, the message “Incorrect” appears. Enter the code again, and then press ENTER.

Continue to set each item following the steps on the next page.

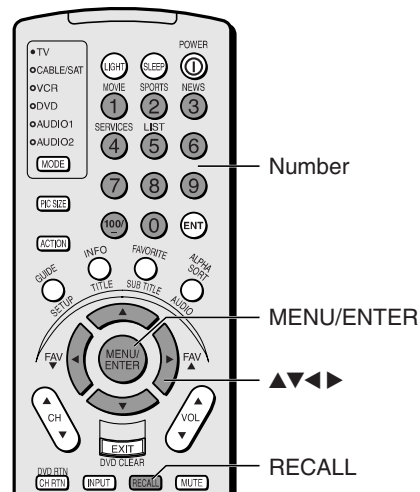
### If you cannot remember your PIN code

While in the PIN code entering mode, press the RECALL button four times within five seconds. The PIN code will be released (returned to BLOCKING RESET status).



### Note:

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







## Using the V-CHIP menu

Some TV programs and movies include signals that classify the content of the program (dialog, language, sex, violence). 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.

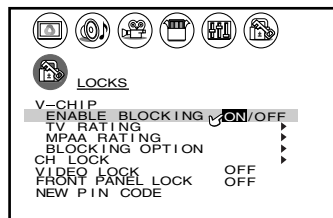
### Note:

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

### ENABLE BLOCKING

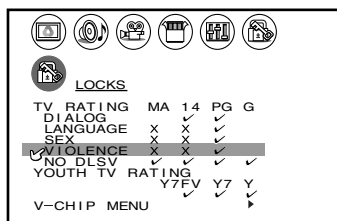
1. From the LOCKS menu, select ENABLE BLOCKING.
2. Press ◀ or ▶ to select ON or OFF.  
ON : To enable your V-CHIP settings (lock).  
OFF: To release your V-CHIP settings (unlock).

**Note:** The CH LOCK function is not affected by the ENABLE BLOCKING setting.



### 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 an item.
4. Press ▶ to lock (displays "X").  
Press ◀ to unlock (displays "✓").
5. Repeat steps 3 and 4 to set the next item.

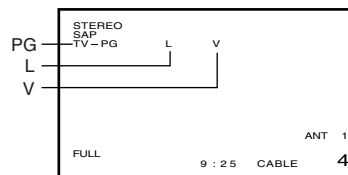


The age-based TV ratings and content themes you can lock are listed in the table below.

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 Guidance 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.)

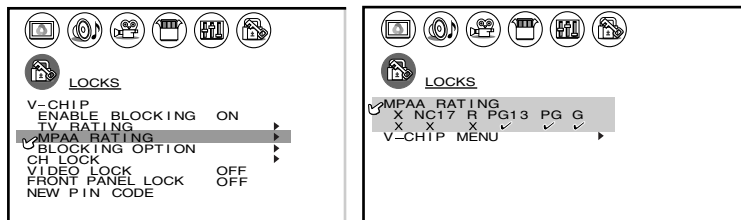


Press RECALL to display the rating of the TV program you are currently watching.



## MPAA RATING (Independent rating system for movies)

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



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

The movie ratings you can lock are described as follows:

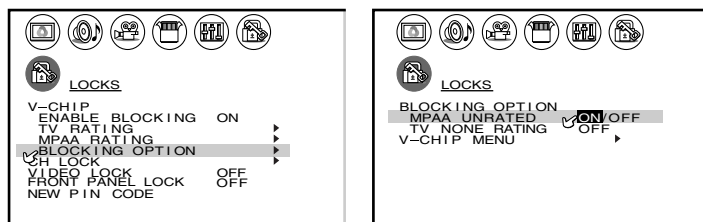
- X : X-rated (For adults only)
- NC17: Not intended for anyone 17 and under
- R : Restricted (Under 17 requires accompanying parent or adult guardian.)
- PG13 : Parents Strongly Cautioned (Some material may be inappropriate for children under 13)
- PG : Parental Guidance Suggested (Some material may 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, and then press ▲ or ▼ to select an item, as follows:

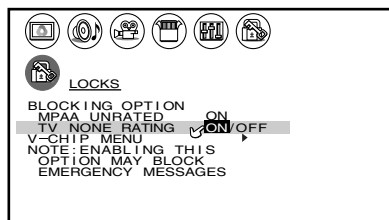
### MPAA UNRATED:

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



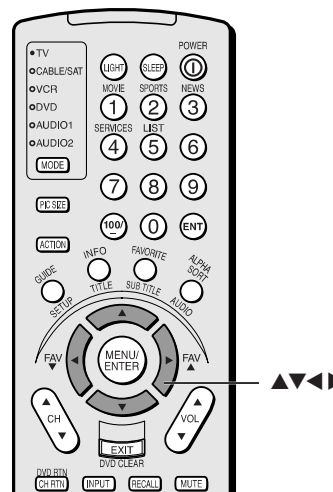
### TV NONE RATING:

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.



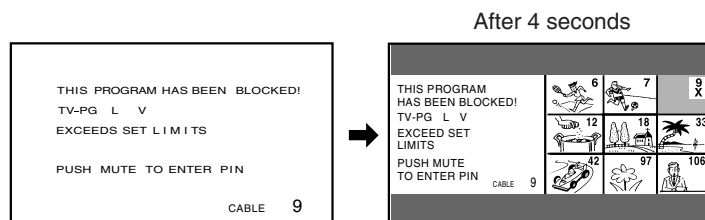
### Caution

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.

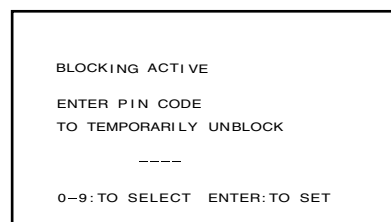


## Unlocking programs temporarily

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 favorite channel search function (see page 39). You can either unlock the program temporarily (see steps 2 and 3) or select an unlocked program to watch.

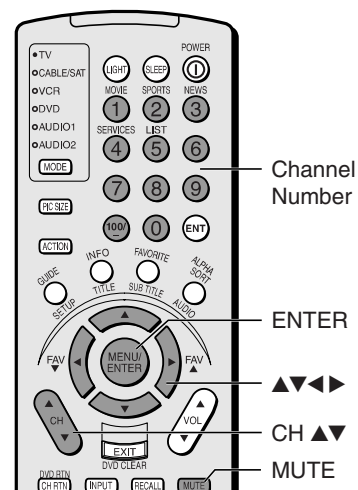


2. To temporarily unlock the program, press MUTE.
3. Press the Number buttons (0–9) to enter your 4-digit PIN code, and then press ENTER.



If the correct code is entered, the program lock mode is released and the normal picture appears.

All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.



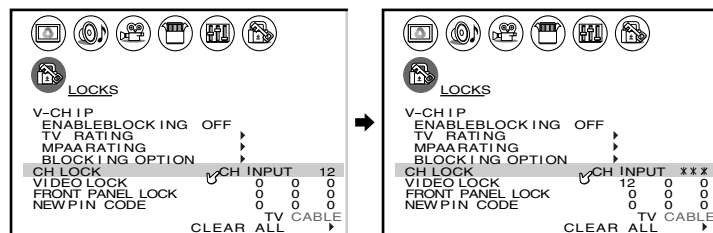
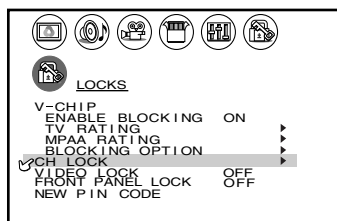
## Locking channels

You can use the CH LOCK feature to lock specific channels. You will not be able to tune locked channels with either the Channel ▲▼ buttons or Channel Number buttons, unless you clear the setting.

You can lock a maximum of nine channels.

To lock a channel:

1. From the LOCKS menu, select CH LOCK.
2. Press ◀ or ▶ to display the CH LOCK menu.
3. Press the Channel Number buttons to enter the channel you want to lock.
4. Press ENTER.

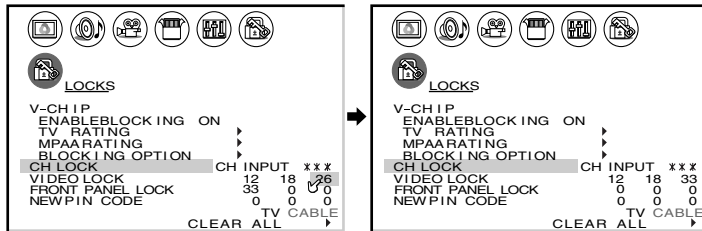


5. Repeat steps 3 and 4 for other channels.

*(Continued on next page)*

To unlock channels:

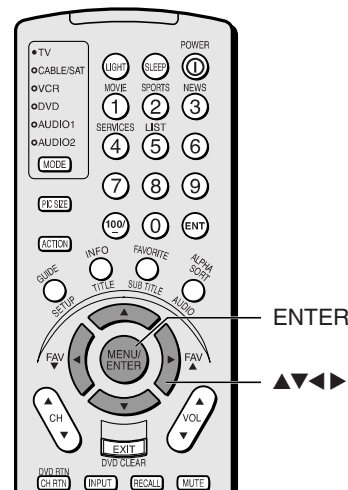
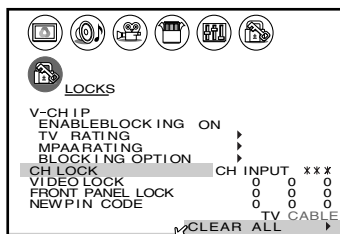
1. From the LOCKS menu, select CH LOCK.
2. Press ◀ or ▶ to display the CH LOCK menu.
3. Press ▲▼◀▶ to highlight the channel you want to unlock, and then press ENTER.



4. Repeat step 3 for other channels you want to unlock.

To clear all locked channels at once:

Press ▲ or ▼ to highlight CLEAR ALL in step 3 above, and then press ▶ or ◀.



## Locking video inputs

You can use the VIDEO LOCK feature to lock out the video input sources (VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2, DVI, PC IN) and channels 3 and 4.

You will not be able to select the locked input sources with the TV/VIDEO, INPUT, or Channel button unless you clear the setting.

To set up the video lock:

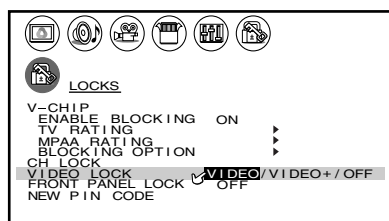
1. From the LOCKS menu, select VIDEO LOCK.
2. Press ◀ or ▶ to highlight the level of video locking you want, as follows:

**VIDEO** : Locks VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1/HD2, DVI, and PC IN.

**VIDEO+** : Locks VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1/HD2, DVI, PC IN, and channels 3 and 4.

Select VIDEO+ if you use the antenna terminal to play a video tape.

**OFF** : Unlocks all video input sources.

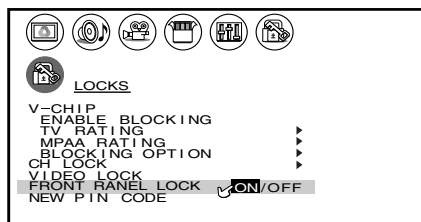


## Using the front panel lock feature

You can use the FRONT PANEL LOCK feature to lock the control touchpad on the TV, to prevent your settings from being changed accidentally (by children, for example). When the front panel lock is ON, all controls on the touchpad (except POWER) do not operate.

To lock the front panel touchpad:

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



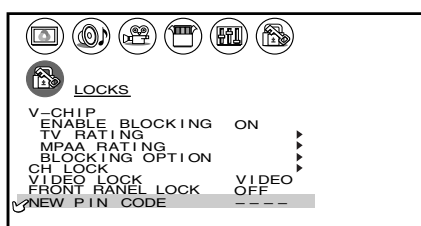
If a control on the touchpad (except POWER) is pressed, the message “Not Available” appears.

To unlock the front panel touchpad:

Highlight OFF in step 2 above, or press and hold VOLUME DOWN (◀) on the touchpad for about 10 seconds until the message “Front Panel Lock: OFF” appears on-screen.

## Changing the PIN code

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



3. Press ENTER.

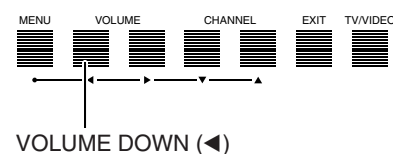
The new PIN code is now active.

### Control touchpad on TV front

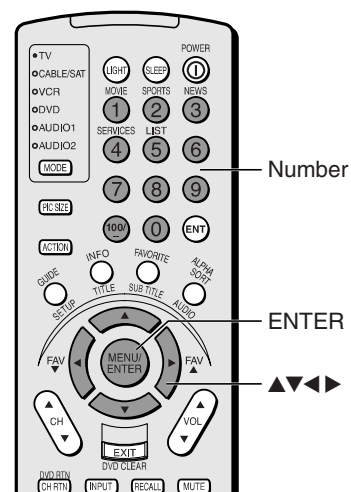


Controls to be locked

### Control touchpad on TV front



VOLUME DOWN (◀)



Introduction

Connecting your TV

Using the Remote Control

Setting up your TV

Using the TV's Features

Appendix

Index

## Adjusting the picture

### Selecting the picture mode

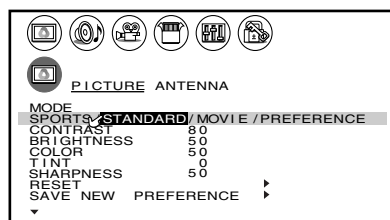
You can select from four picture modes: Sports, Standard, Movie, and Preference.

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 preferences*

\*(see "Saving your new preferences" on page 47.)

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.

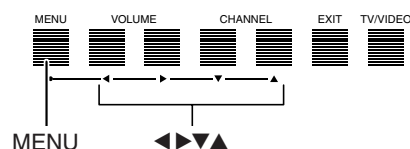


### Note:

If you select one of the factory-set picture modes (SPORTS, STANDARD, or MOVIE) and then change a picture quality setting (e.g., 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 47) before closing the Picture menu or the TV will return to the previous picture mode.

### Control touchpad on TV front



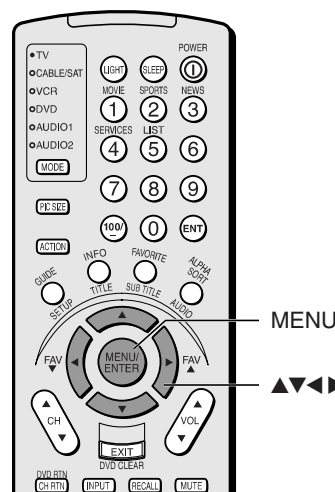
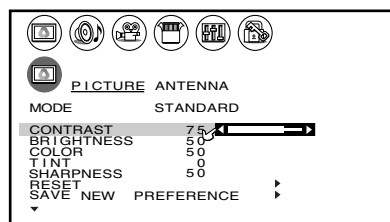
### Adjusting the picture quality

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

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 47). You can keep these settings or choose factory set options, as described under "Selecting the picture mode" above.



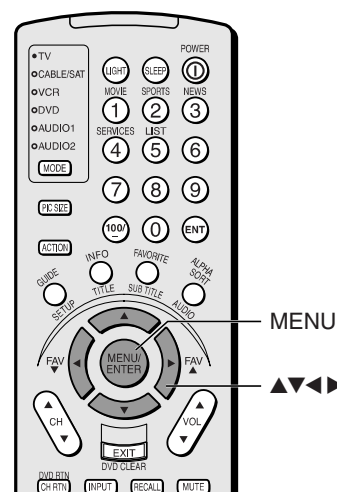
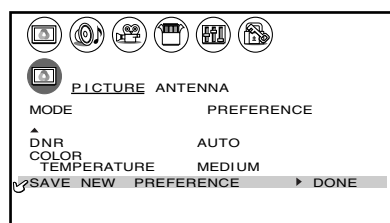


## Saving your new preferences

You can save the picture qualities you adjusted (contrast, brightness, color, tint, and sharpness) in the PICTURE menu 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 ▶. The menu displays "DONE."



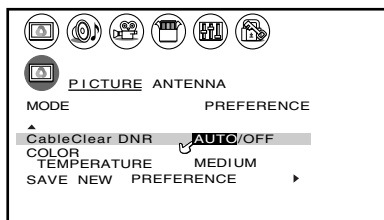
You can choose your saved preferences by selecting PREFERENCE (see "Selecting the picture mode" on page 46).

## Using CableClear™ DNR (Digital Noise Reduction)

CableClear™ DNR reduces visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal 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.

**Note:**

The "CableClear DNR" menu listing will change to "DNR" in VIDEO mode.

To turn off CableClear DNR:

Highlight OFF in step 3 above.

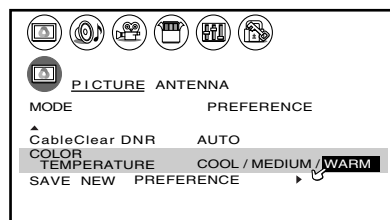
## Selecting the color temperature

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

Mode	Picture Quality
cool	blueish
medium	neutral
warm	reddish

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.



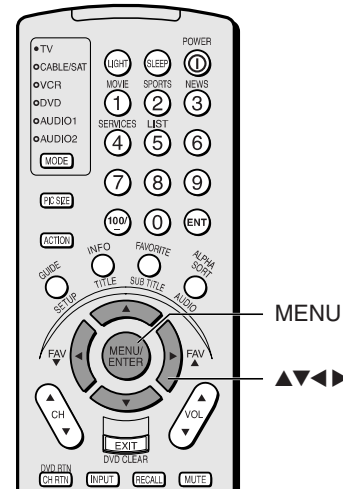
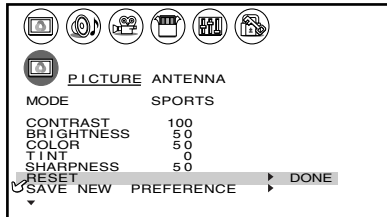
## Resetting your picture quality adjustments

The RESET function returns your picture quality adjustments to the following factory settings:

Contrast .....	max (100)	Color temperature .....	Cool
Brightness .....	center (50)	DNR .....	Auto
Color .....	center (50)	Mode .....	Sports
Tint .....	center (0)		
Sharpness .....	center (50)		

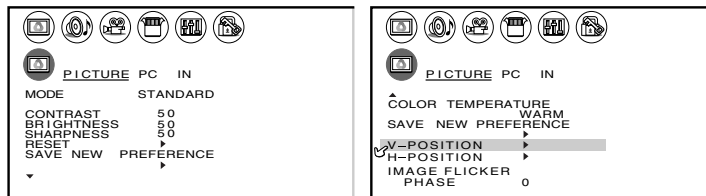
To reset your picture quality adjustments:

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



## Picture menu adjustments for PC IN mode

When the TV is in PC IN mode, the PICTURE menu lists three additional items: V-POSITION, H-POSITION, and IMAGE FLICKER PHASE.



### Note:

- To put the TV in PC IN mode, press INPUT on the remote control, and then press 7.
- When the TV is in the PC IN mode, menus and items not applicable to PC IN mode cannot be selected or adjusted. The only available menus in PC IN mode are PICTURE, AUDIO, and THEATER.
- See page 18 for details on connecting a computer to your TV.

To adjust the horizontal/vertical position and image flicker:

1. Press MENU, and then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ until the item you want to adjust is highlighted (V-POSITION, H-POSITION, or IMAGE FLICKER PHASE), and then press ◀ or ▶ to open the adjustment menu for that item.
3. Adjust the item as follows:

V-POSITION: Press ▼ to move down or ▲ to move up.

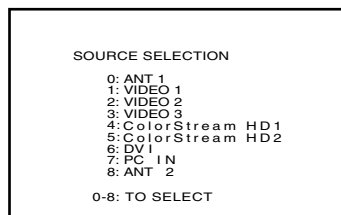
H-POSITION: Press ◀ to move left or ▶ to move right.

IMAGE FLICKER PHASE: Press ◀ or ▶ to adjust the image to minimize flicker.

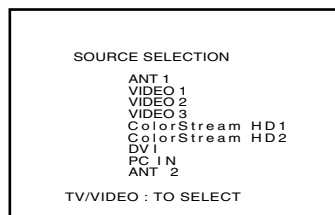


## Selecting the video input source

Press INPUT on the remote control or TV/VIDEO on the TV to view a signal coming 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, PC IN, or ANT 2 depending on which input terminals are used to connect your devices (see "Connecting your TV" on pages 8–18.)



Pressing INPUT on the remote control displays the current signal source (press INPUT again or 0–8 to change)

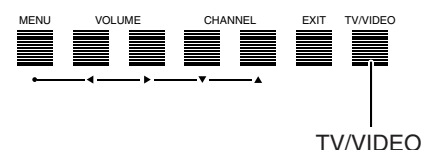


Pressing TV/VIDEO on the TV changes the current signal source

### Note:

- When ColorStream HD1/HD2, DVI, or PC IN is selected, the VIDEO OUT jack does not output a signal. To receive a VIDEO OUT signal, use a standard video or S-video IN connection instead.
- If you select ColorStream HD1/HD2, DVI, or PC IN while the POP picture is active, the POP window will close.

### Control touchpad on TV front



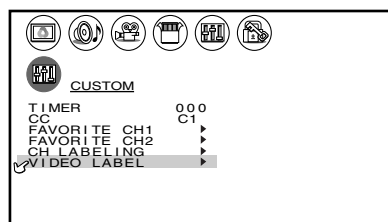
## Labeling the video input sources

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

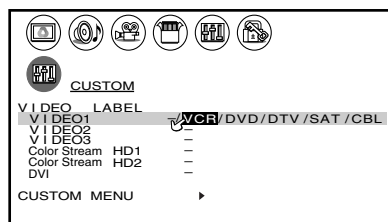
- : Uses the default label name
- VCR : Video cassette recorder
- DVD : DVD video
- DTV : Digital TV set-top box
- SAT : Satellite box
- CBL : Cable box
- HD : DVI/HDCP device (see page 15)

To label the video input sources:

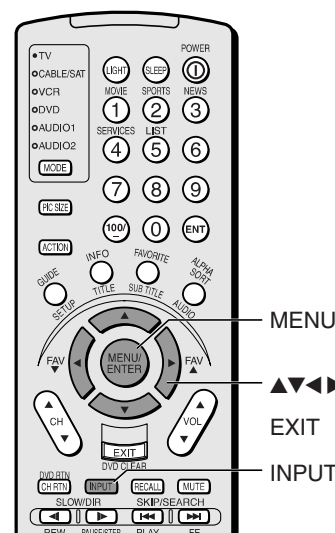
- Press MENU, and then press ◀ or ▶ until the CUSTOM menu appears.
- Press ▲ or ▼ to highlight VIDEO LABEL.



- Press ◀ or ▶ to display the VIDEO LABEL menu.
- Press ▲ or ▼ to highlight the video source you want to label.
- Repeatedly press ◀ or ▶ to select the desired label for that input source.



- Finish labeling the other video sources as desired. To return to the previous menu, press ▲ or ▼ to highlight CUSTOM MENU, and then press ◀ or ▶.
- To exit the menu, press EXIT.



### Note:

The HD (high-definition) label is available for DVI mode only (see "Selecting the video input source" above, and "Connecting a device to the DVI/HDCP IN terminal" on page 15.)

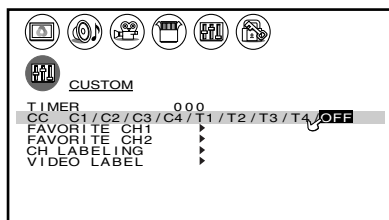
## Using the closed caption feature

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 ▶ until the CUSTOM menu appears.
3. Press ▼ or ▲ to highlight CC.



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

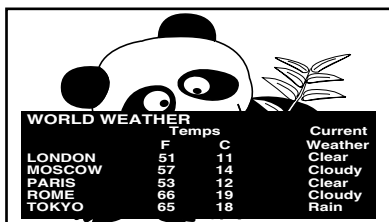
- To view captions, highlight C1, C2, C3, or C4 (C1 displays translation of the primary language in your area).

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



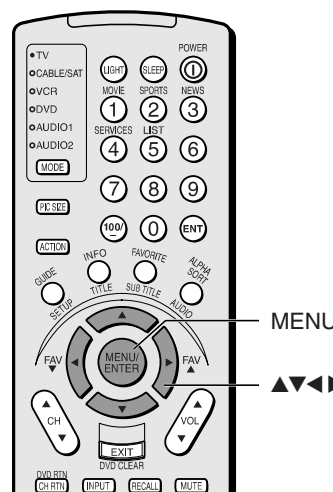
- To view text, highlight T1, T2, T3, or T4.

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



To turn off the Closed Caption feature:

Highlight OFF in step 4 above.



**Note:**

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

- when a videotape has been dubbed
- when the signal reception is weak
- when the signal reception is nonstandard
- when the TV is in PC IN mode (page 49)



## Setting the sleep timer

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

1. Press SLEEP to set the length of time until the TV turns off.



Each time you press SLEEP, the time will increase by 10 minutes, to a maximum of 180 minutes.

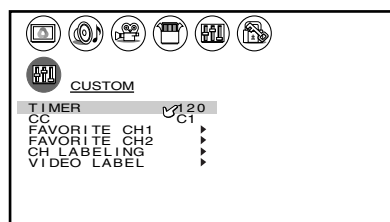
0 → 10 → 20 — — — → 170 → 180 → 0 → 10 min.

To cancel the sleep timer:

Press SLEEP until it is set to 0.

You also can set the timer using the on-screen menu:

1. Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
2. Press ▲ or ▼ to highlight TIMER.
3. After the number position starts to blink, press the Number buttons (0–9) to enter the length of time until the TV turns off automatically.
4. Press ENTER to start the timer.

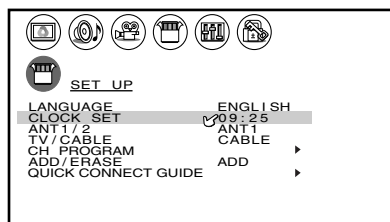


## Setting the clock

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, and then press ENTER.

The clock operates on a 12-hour cycle.

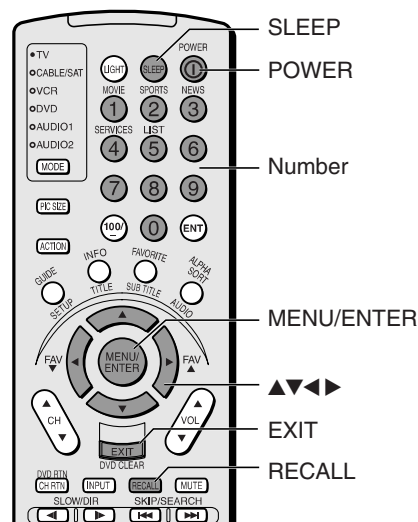


To display the time on-screen:

Press RECALL.

### Note :

To display the amount of time left until the TV turns off automatically, press SLEEP once.



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## 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 displays "1/2 MUTE" or "MUTE" in the lower right corner. Each time you press MUTE, 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, press MUTE again. This feature works only when the closed caption mode is set to OFF. See "Using the closed caption feature" on page 50 for more information.

### Selecting stereo/SAP broadcasts

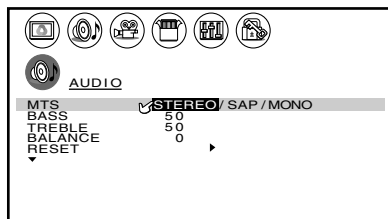
The multi-channel TV sound (MTS) feature allows you to listen to high-fidelity stereo sound while watching TV. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

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.

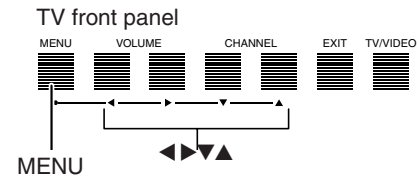
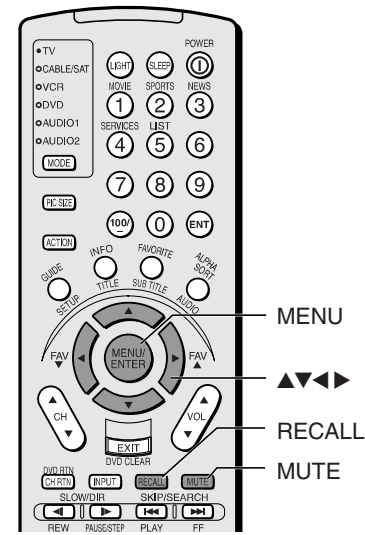


You can leave your TV in STEREO mode because it will automatically output the type of sound being broadcast (stereo or monaural). The word "STEREO" or "SAP" displays in yellow in the menu when the TV receives the signal.

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, you will see the picture but not hear any sound. If this happens, put the TV in STEREO mode so you can hear the station's normal audio.





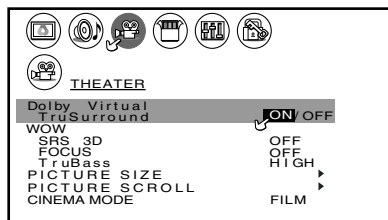
## Enjoying the Dolby Virtual TruSurround sound feature

The Dolby® Virtual TruSurround sound feature allows you to enjoy virtual surround sound from the TV's speakers.

- If you connect a device with digital audio output to either the coaxial or optical DIGITAL AUDIO IN terminal on the TV, and the input source (DVD or DTV program, for example) is encoded with 5.1-channel sound, the Dolby Virtual TruSurround feature functions as (VDD). VDD simulates Dolby Digital 5.1-channel, six-speaker surround sound from the TV's speakers. See pages 14 and 57 for additional details on digital audio connection.
- If you connect a device with analog audio output to standard (analog) audio terminals on the TV, and the input source (a game console or DTV program, for example) is encoded with sound, the Dolby Virtual TruSurround feature functions as Virtual Dolby Surround (VDS). VDS simulates Dolby Surround sound from the TV's speakers.

To turn on Dolby Virtual TruSurround sound:

1. Press MENU, and then press ◀ or ▶ until the THEATER menu appears.
2. Press ▲ or ▼ to highlight Dolby Virtual TruSurround.
3. Press ◀ or ▶ to highlight ON.



To turn off Dolby Virtual TruSurround sound:  
Highlight OFF in step 3 above.

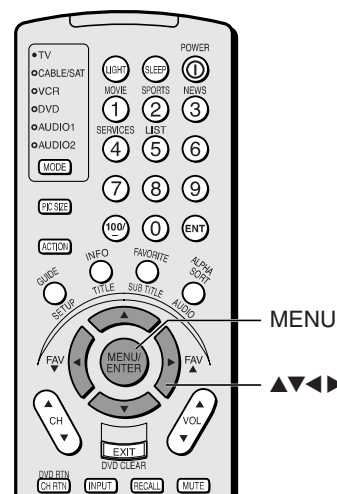
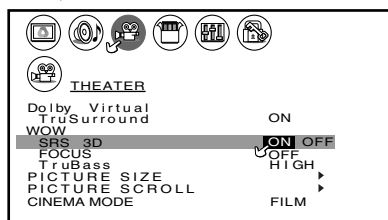
## Enjoying the WOW™ surround sound features

The WOW™ surround sound features (SRS 3D, FOCUS and TruBass) expand the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. The WOW features use stereo signals from a TV broadcast or video input.

- SRS 3D: Surround sound effect
- FOCUS: Vocal emphasis effect
- TruBass: Bass expansion level (HIGH, LOW, or OFF)

To adjust the WOW features:

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 (SRS 3D, FOCUS, or TruBass), and then press ◀ or ▶ to adjust the item.



### Note:

The Dolby Virtual TruSurround and WOW SRS 3D features cannot be on at the same time.

### Note:

If the broadcast is monaural, the WOW SRS 3D surround sound effect will not work.

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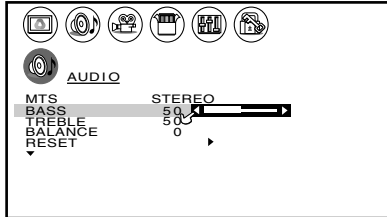
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## Adjusting the sound quality

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 (**BASS**, **TREBLE**, or **BALANCE**).



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.

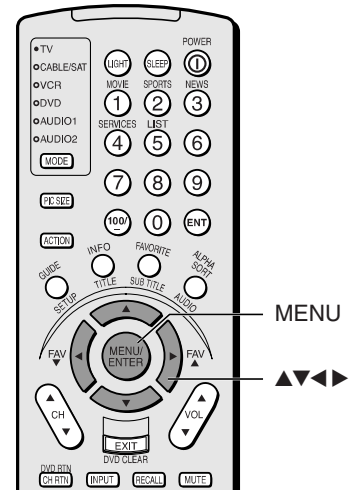
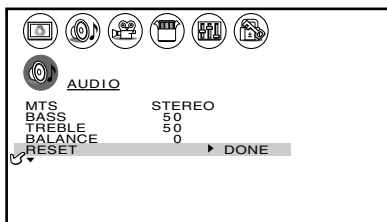
## Resetting your audio adjustments

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

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

To reset your 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."



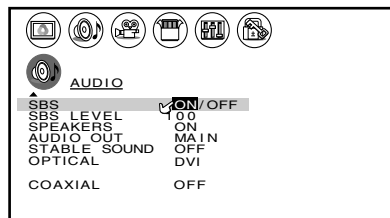


## Using the sub-bass system (SBS)

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

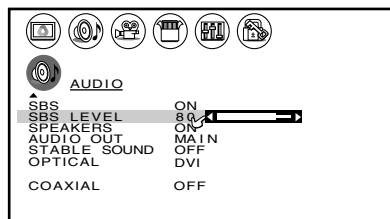
To turn on the SBS:

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:

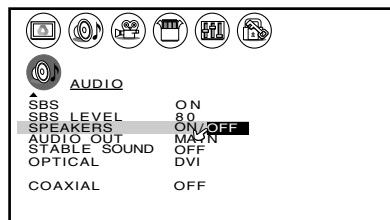
Highlight OFF in step 3 above.

## Turning off the built-in speakers

Use this feature to turn off the TV speakers when you connect an audio system (see "Connecting an audio system" on page 17).

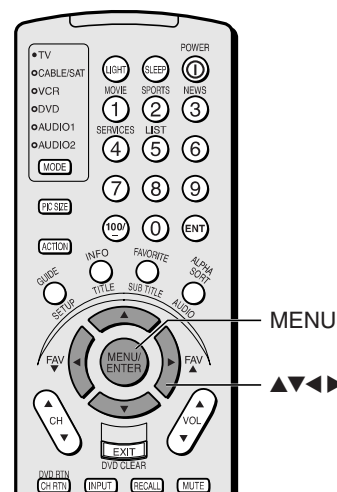
To turn off the built-in speakers:

1. Press MENU, and 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.



### Note:

The SBS signal does not pass through the "Variable Audio OUT" jacks (see "Connecting an audio system" on page 17).

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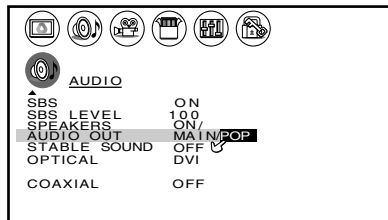
## Selecting the AUDIO OUT sound

This feature allows you to select the sound source (MAIN or POP) that is output from the AUDIO OUT terminals.

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. See "Connecting an audio system" on page 17.

To select the Audio OUT sound:

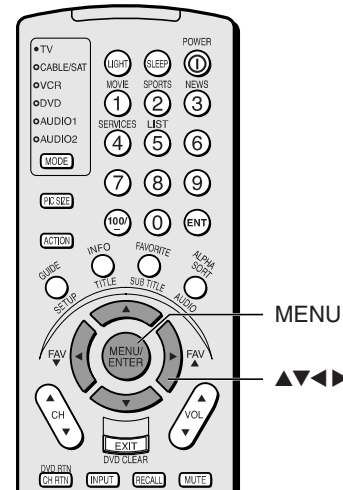
1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight AUDIO OUT.
3. Press ◀ or ▶ to select MAIN or POP.



- MAIN: Outputs the sound of the main program through the AUDIO OUT terminals.
- POP: Outputs the sound of the POP program through the AUDIO OUT terminals.

### Note:

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

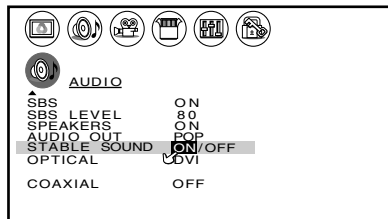


## Using the StableSound® feature

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

To turn on the StableSound® feature:

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



To turn off the StableSound® feature:

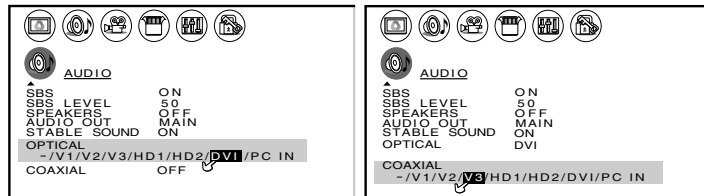
Highlight OFF in step 3 above.

## Assigning the corresponding video input for the optical and coaxial DIGITAL AUDIO IN terminals

You can assign the specific video input to use with the optical and/or coaxial DIGITAL AUDIO IN terminals.

To assign the video input:

1. Press MENU, and then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight OPTICAL or COAXIAL (whichever DIGITAL AUDIO IN terminal you are assigning video to).



3. Press ◀ or ▶ to assign the corresponding video input, as follows:

- : OFF
- V1 : VIDEO 1 IN
- V2 : VIDEO 2 IN
- V3 : VIDEO 3 IN
- HD1 : ColorStream HD1 IN
- HD2 : ColorStream HD2 IN
- DVI : DVI/HDCP IN
- PC IN : PC IN

### Note:

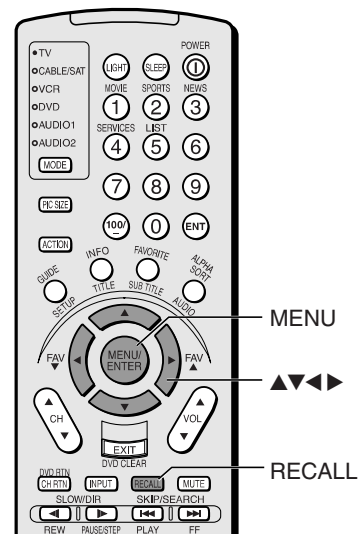
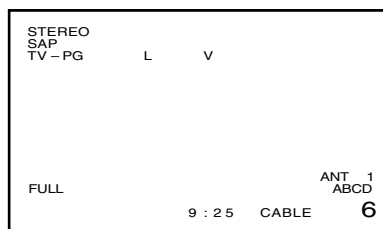
- When both OPTICAL and COAXIAL are set to OFF (in steps 2 and 3 above), the video inputs are assigned instead to their corresponding analog audio input terminals. If you set both OPTICAL and COAXIAL to OFF, you will need to connect standard analog audio cables or you will not hear any sound with the corresponding video input.
- You cannot assign the same video input to both OPTICAL and COAXIAL DIGITAL AUDIO IN terminals.

For additional details on digital audio, see “Connecting a DVD player or DTV receiver/set-top box with digital audio (coaxial or optical)” on page 14 and “Enjoying the Dolby Virtual TruSurround sound feature” on page 53.

## Displaying on-screen information

Press RECALL to display the following information on-screen:

- Antenna mode (when in TV mode)
- Channel number or video mode selected
- Time (if set)
- Channel label (if set)
- Stereo or SAP audio status
- V-CHIP rating status
- Picture size



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## Viewing the demonstration mode

The demonstration mode will demonstrate several of your TV's features.

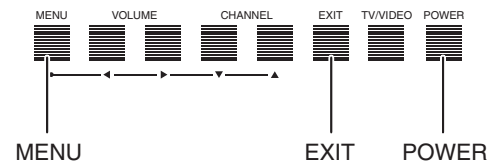
To start the demo:

Press and hold MENU on the TV control touchpad for 4 seconds.

To stop the demo:

Press RECALL, EXIT, or POWER.

Control touchpad on TV front



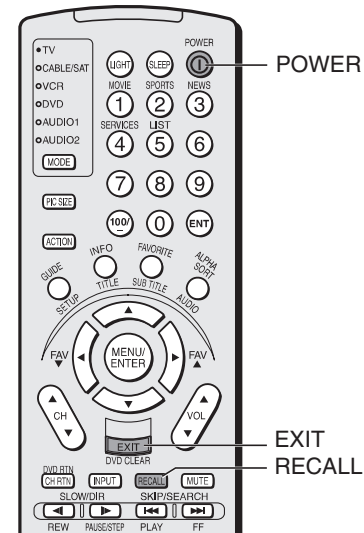
## Understanding the auto power off feature

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 on the TV 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

### Lamp unit replacement

The light source for this TV is a mercury lamp with internal atmospheric pressure that increases during use. The lamp has a limited service life that varies depending on user settings. If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture (often making a loud noise when this happens). If the lamp ruptures, the TV will not operate until the lamp unit is replaced.

**Note:** The lamp unit is designed so broken lamp glass remains securely inside the lamp unit.

 **CAUTION: Always handle the lamp unit with care.** The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

### When to replace the lamp unit

You should replace the lamp unit:

- if the picture darkens and/or colors fade;
- if the lamp does not light; or
- if you hear a loud noise and the picture goes black, which may indicate a lamp rupture.



One replacement lamp unit is included in the original packing material for the TV. To obtain additional replacement lamp units:

- In the U.S., contact your local Toshiba dealer.
- In Canada, locate a Toshiba parts distributor by directing your web browser to [www.toshiba.ca](http://www.toshiba.ca); click "Home Entertainment," and then click "Support."

Use the replacement lamp unit model listed below only. Using any other lamp may result in failure.

 **CAUTION: Always replace with same type lamp unit — Model No. SSMR100-FK/E95**

*(Continued on next page)*

 **WARNING: RISK OF ELECTRIC SHOCK!**   
 TO REDUCE THE RISK OF ELECTRIC SHOCK, **NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN.** REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

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## How to replace the lamp unit

**Required tool:** Manual flathead screwdriver



1. Turn off the TV and unplug the power cord.

 **WARNING: Eye damage may result from directly viewing the light produced by this lamp.** Always turn off the TV and unplug the power cord before opening the lamp unit door.

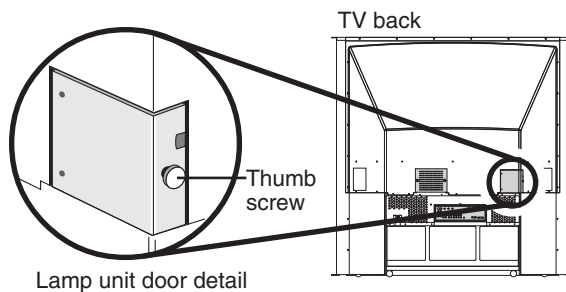
 **WARNING: RISK OF ELECTRIC SHOCK!** 


TO REDUCE THE RISK OF ELECTRIC SHOCK, **NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN.** REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

2. **STOP!** Allow the lamp to cool for at least one (1) hour before replacing it.

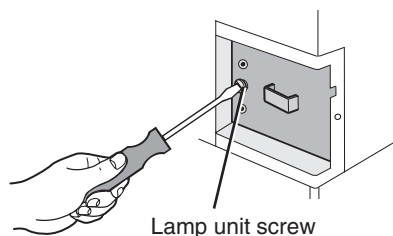
 **CAUTION: HOT SURFACE**  The temperature of the lamp immediately after use exceeds 392°F (200°C). Touching the lamp at this temperature will result in injury. **ALLOW THE LAMP TO COOL FOR AT LEAST ONE (1) HOUR BEFORE REPLACING IT.**

3. On the back of the TV, loosen the thumb screw (by hand) on the lamp unit door, and then remove the lamp unit door.



 **WARNING:** The lamp unit door is provided with an interlock to reduce the risk of electric shock and excessive ultraviolet radiation. **Never defeat its purpose or attempt to service without removing the lamp unit door completely.** Failure to follow this WARNING may result in death or serious injury.

4. Using a manual flathead screwdriver, loosen the screw on the lamp unit.

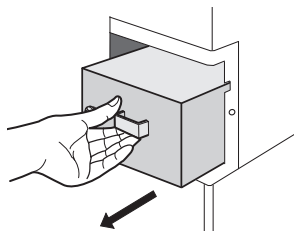


*(Continued on next page)*



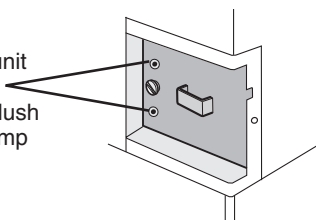
## How to replace the lamp unit (cont.)

- Grasp the lamp unit handle and gently pull the lamp unit straight out of the TV. Set the old lamp unit aside (see "Lamp unit disposal" on page 62).



- Carefully insert the new lamp unit straight into the TV until it is fully seated. The lamp unit is fully seated when the two plastic "nubs" on the TV cabinet are flush with the two holes in the lamp unit (above and below the lamp unit screw hole; see illustration below).

Fully seated lamp unit (two plastic "nubs" on TV cabinet are flush with two holes in lamp unit).

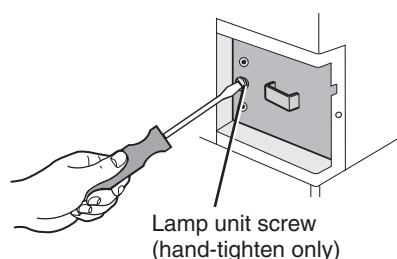


### Note:

- Never subject the lamp unit to excessive shock.
- Never touch the lamp unit glass or otherwise get it dirty. Doing so may affect the image quality and reduce the service life of the lamp. See "Cleaning the lamp unit glass" at right.

- Using a manual flathead screwdriver, replace the lamp unit screw.

**Note: Hand-tighten only.** Do not use an electric screwdriver.



**NOTE:** Make sure the lamp unit and screw are installed securely; otherwise, the TV may not turn on and the lamp life may be shortened.

(Continued on next page)

### Cleaning the lamp unit glass

If you accidentally touch the lamp unit glass or otherwise get it dirty, wipe it with a lint-free lens cleaning cloth (such as a cloth for cleaning camera lenses or eyeglasses).

**CAUTION: NEVER clean a hot lamp with any type of flammable liquid or aerosol cleaning agent.** Many ordinary cleaning agents (such as glass cleaners) contain chemicals that may be flammable at certain temperatures. If the lamp unit is not allowed to cool for at least one (1) hour, such chemicals may ignite.

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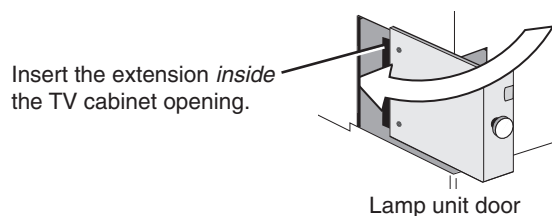
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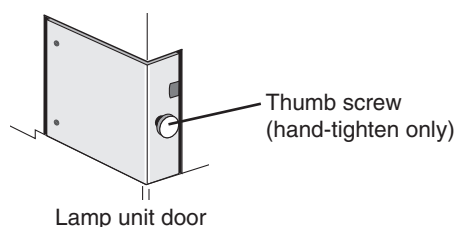
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## How to replace the lamp unit (cont.)

8. Reattach the lamp unit door, making sure to **insert the extension on the left side of the lamp unit door** (the side without the thumb screw) **inside the opening in the TV cabinet**.



9. Replace the thumb screw and hand-tighten.



**NOTE:** Make sure the lamp unit door and thumb screw are installed securely; otherwise, the TV may not turn on and the lamp life may be shortened.

10. Plug in the power cord and turn on the TV. After the initial warmup period (which may take up to 45 seconds for full picture brightness), the TV should operate normally. If any of the following conditions exist, turn off the TV, unplug the power cord, and repeat steps 1–9 to ensure that the lamp unit and lamp unit door are installed correctly:

- No picture
- Dark picture
- TV will not turn on

If, after repeating steps 1–9, the problem still exists:

- In the U.S., call Customer Service at 1-800-631-3811.
- In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to [www.toshiba.ca](http://www.toshiba.ca); click “Home Entertainment,” and then click “Support.”

## Lamp unit disposal

- Place the used lamp unit in the empty box from the new lamp unit.
- Keep the lamp unit out of reach of children and pets.

**CAUTION:** Always handle the lamp unit with care. The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

- Dispose of the used lamp unit by the approved method for your area.

**NOTE:** The lamp unit contains mercury, the disposal of which may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronics Industries Alliance ([www.eiae.org](http://www.eiae.org)).



## Air filter care

The air filter prevents excessive dust from entering the TV. If the air filter accumulates too much dust, the internal temperature of the TV may rise, resulting in possible malfunction; therefore, it is recommended that you **clean the air filter a minimum of every two (2) months**.

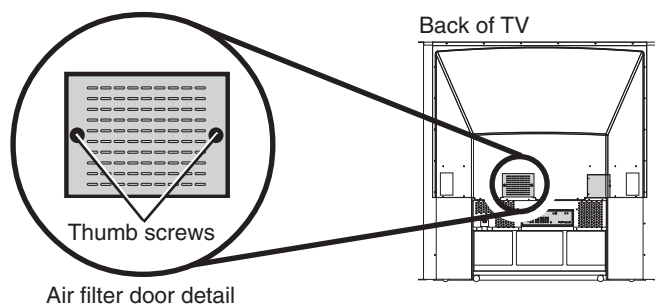
This TV contains several cooling fans to moderate the TV's internal temperature. The air intake for these fans is through the air filter. To maintain maximum cooling efficiency of the fans, clean the air filter regularly and never place the TV where the air filter will be blocked (against a curtain, for example).

If the air filter becomes lost or damaged, replace it with a new one before using the TV. Continued use of the TV without an air filter or with a damaged air filter will allow excessive dust to enter and damage the TV. See air filter ordering information at right.

**Note:** Always use the TV with a clean air filter in place, or excessive dust may enter and damage the TV.

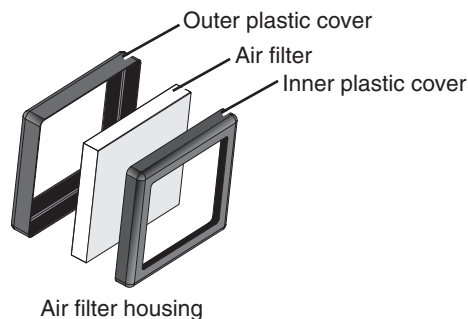
## How to clean the air filter

1. Turn off the TV and unplug the power cord.
2. Loosen the two thumb screws (by hand) on the air filter door (on the back of the TV), and then remove the air filter door.



**NOTE:** The air filter door is provided with an interlock to reduce the risk of damage to the TV. Do not defeat its purpose or attempt to service without removing the door completely.

3. Gently pull to remove the air filter housing from the TV.
4. Remove the outer and inner plastic covers from the air filter.



(Continued on next page)

**WARNING: RISK OF ELECTRIC SHOCK!**

TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

Contact a Toshiba parts distributor for a replacement air filter. Order "filter piece," part no. 23929849.

To locate a Toshiba parts distributor:

- In the U.S., direct your web browser to [www.toshiba.com/tacp](http://www.toshiba.com/tacp), click "Customer Solutions," and then click "Parts & Accessories" (you may need to scroll the screen to see this link); or call 1-800-631-3811.
- In Canada, direct your web browser to [www.toshiba.ca](http://www.toshiba.ca), click "Home Entertainment," and then click "Support."

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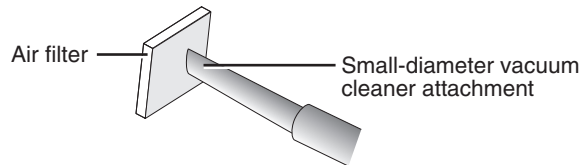
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## How to clean the air filter (cont.)

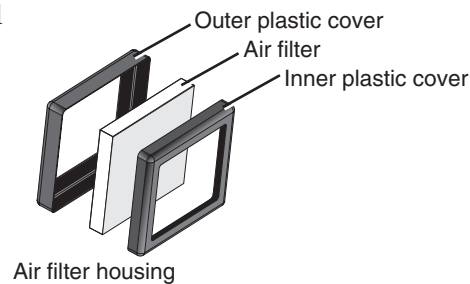
5. Using a small-diameter vacuum cleaner attachment, carefully vacuum both sides of the air filter.

**Note:**

- **Never use a large diameter vacuum cleaner attachment to clean the air filter, or the air filter may get caught in the vacuum cleaner.**
- **Never use water or other liquids to clean the air filter, or the air filter may become damaged.**



6. Reattach the outer and inner plastic covers around the air filter.



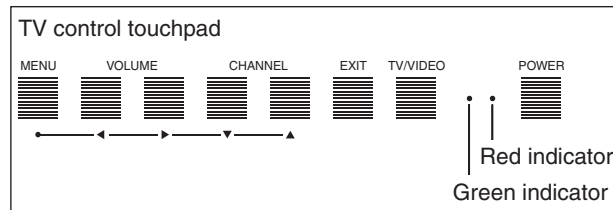
7. With the **outer plastic cover of the air filter housing facing the TV**, gently reinsert the air filter assembly into the TV's air filter cavity.
8. Reattach the air filter door, and replace the two thumb screws by hand (review step 2).

**NOTE:** Make sure the air filter door and screws are installed correctly; otherwise, the TV may not turn on and excessive dust may enter and damage the TV.

## LED indications

The green and red LED lights on the TV control touchpad (on the lower right corner of the TV screen) indicate the TV's current status, as follows:

- Green ON = Control touchpad being pressed.
- Red ON = Power ON.
- Green and/or Red blinking (see table below for condition and solution).



LED Indication	Condition	Solution
1) Green and Red blink at 0.3-second intervals.	The lamp unit door is not seated properly.	Turn the POWER OFF and unplug the power cord. Review "How to replace the lamp unit" on pages 60-62 to ensure that the lamp unit door is installed securely. If the problem persists, contact a Toshiba Authorized Service Center.
2) Green blinks at 0.3-second intervals; Red lights solid.	The lamp is not working properly.	The TV automatically will try to reset itself three times.
3) Green and Red blink at 1-second intervals.	EITHER: The lamp is not working properly after the third automatic reset (see item #2).	Turn the POWER OFF and then ON again. If the problem persists, replace the lamp unit (see pages 60-62). If the problem still persists, contact a Toshiba Authorized Service Center.
	OR: A cooling fan is not working properly.	Turn the POWER OFF and then ON again. If the problem persists, contact a Toshiba Authorized Service Center.



## Specifications

Design and specifications are subject to change without notice.

### 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

213 W (average)

### Audio Power

Main : 20 W + 20 W

Woofer : 20 W + 20 W

### Speaker Type

Main : Two 2-3/16 × 6 inches (50 × 150 mm)

Woofer : Two 5-1/2 inches (140 mm) 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 kohm)

#### 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 kohm

#### VIDEO/AUDIO OUTPUT

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

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

#### VARIABLE AUDIO OUTPUT

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

#### AUDIO CENTER CHANNEL INPUT

300 mV(rms) (30% modulation equivalent, 10 kohm)

#### DVI/HDCP INPUT

HDCP compliant

E-EDID\* 1.3 compliant

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

Suggested input scan rates: 1080i, 720p, 480p, 480i

### PC INPUT

Mini D-sub 15-pin, Analog RGB

### DIGITAL AUDIO INPUT

Optical or Coaxial

### IR Blaster

OUTPUT: 3 V(p-p), 10 kohm

INPUT: 3 V(p-p) to 5 V(p-p), pulse code modulated (Toshiba TV code) over 38 KHz carrier

### Dimensions

Width : 62-3/4 inches (1592.4 mm)

Height : 60-1/4 inches (1530.6 mm)

Depth : 18-1/2 inches (470 mm)

### Weight

300 lbs (136.1 kg)

### Supplied Accessories

Remote Control with 2 size “AA” alkaline batteries

Illumination lamp (for replacement)

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\*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, and then press POWER.</li> <li>• The remote control batteries may be dead. Replace the batteries.</li> <li>• If you have recently replaced the lamp unit or cleaned the air filter, make sure the lamp unit, lamp unit door, and/or air filter door are installed properly.</li> <li>• The lamp unit may need to be replaced.</li> </ul>
No picture	<ul style="list-style-type: none"> <li>• The lamp unit may need to be replaced.</li> <li>• If you are using a DVI/HDCP device, make sure the DVI cable is connected securely on both ends.</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>• Make sure the SPEAKERS function in the AUDIO menu is set correctly.</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> <li>• If you are using a DVI/HDCP device, make sure the DVI cable is connected securely on both ends.</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> <li>• The lamp unit may need to be replaced.</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>• Make sure 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 (VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1/HD2, DVI, PC IN), 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 LCOS Projection 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, except the lamp unit, 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 Ninety (90) Day Warranty on Lamp Unit\*

TACP/THI warrant the lamp unit in this television against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP/THI WILL REPLACE A DEFECTIVE LAMP UNIT WITH A NEW OR REFURBISHED LAMP UNIT WITHOUT CHARGE TO YOU. LABOR CHARGES FOR LAMP UNIT REPLACEMENT ARE NOT COVERED UNDER WARRANTY. The lamp unit is a user-replaceable component.

## 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 lamp unit.

## 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. The lamp unit is a user-replaceable component. Labor charges for lamp unit replacement are not covered under warranty.

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

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

TACP/THI are not liable for:

- (1) damage caused by fire, earthquake, use by a third party, accidents, owner's intentional misuse, or use in other improper conditions;
- (2) incidental damage (such as profit loss or interruption in business, modification or erasure of record data, and so forth) caused by use or misuse of this product;
- (3) damage caused by neglect of instructions described in the owner's manual; and
- (4) damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

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## Limited Canada Warranty for LCOS Projection 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, except the lamp unit, 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 Ninety (90) Day Warranty on Lamp Unit\*

TCL warrants the lamp unit in this television against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL REPLACE A DEFECTIVE LAMP UNIT WITH A NEW OR REFURBISHED LAMP UNIT WITHOUT CHARGE TO YOU. LABOR CHARGES FOR LAMP UNIT REPLACEMENT ARE NOT COVERED UNDER WARRANTY. The lamp unit is a user-replaceable component.

### 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 lamp unit.

### 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. The lamp unit is a user-replaceable component. Labor charges for lamp unit replacement are not covered under warranty. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

For additional information, visit TCL's web site:  
[www.toshiba.ca](http://www.toshiba.ca)

ALL WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY PROVINCE OF CANADA AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TCL WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TCL BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof, is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any province of Canada.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM PROVINCE TO PROVINCE IN CANADA. SOME PROVINCES OF CANADA DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, LIMITATIONS ON THE TIME WITHIN WHICH AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES; THEREFORE, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

TCL is not liable for:

- (1) damage caused by fire, earthquake, use by a third party, accidents, owner's intentional misuse, or use in other improper conditions;
- (2) incidental damage (such as profit loss or interruption in business, modification or erasure of record data, and so forth) caused by use or misuse of this product;
- (3) damage caused by neglect of instructions described in the owner's manual; and
- (4) damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

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## **TOSHIBA AMERICA CONSUMER PRODUCTS, INC.**

HEAD OFFICE/82 TOTOWA ROAD, WAYNE, NEW JERSEY 07470  
NATIONAL SERVICE DIVISION:1420B TOSHIBA DRIVE, LEBANON, TN. 37087

## **TOSHIBA HAWAII, INC.**

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PRINTED IN USA  
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